

**1972  
census  
OF  
manufactures**



**VOLUME II**

**Industry Statistics**

**Part 3.**

**SIC Major Groups 35-39**



**U.S. DEPARTMENT OF COMMERCE  
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# **1972 census OF manUFACTURES**

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**VOLUME II**

## **Industry Statistics**

**Part 3. SIC Major Groups 35-39**



Issued August 1976

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This report was prepared under the direction of Elmer S. Biles, Chief, Industry Division (until February 1975), and Milton Eisen, his successor. Arthur W. Horowitz, assisted by John S. Berube, was responsible for the overall management of the census and was the Industry Division's liaison officer with other divisions.

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# Industry Statistics

## Part 3

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The review and issuance of the final industry and State publications were done on a flow basis. Errors were uncovered for a limited number of data cells after the final publications were issued. Because of the expense involved, corrections were made to the previously published data only if they resulted in a revision of 3 percent or more for an individual industry or 1 percent or more for a State. These corrections are included in the final volumes.

All errors identified in any phase of the review were carried to the computer file used to produce the final subject and special reports. Therefore, those reports represent the most accurate data available.

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# INTRODUCTION

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1. The Economic Censuses
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## I. GENERAL BACKGROUND

### 1. THE ECONOMIC CENSUSES

**General.**—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, selected services industries, mineral industries, construction industries, and transportation. In 1972, these censuses accounted for nearly 77 percent of the \$785 billion of national income originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, and sanitary services; and health and medical services, except for laboratories operating on a profit basis.

**Uses and Users of Census Data.**—The economic censuses are the primary source of facts about the structure and functioning of the economy and therefore provide information essential both for government and business. They furnish an important part of the framework for such composite measures as the national accounts. The census measures also provide weights and serve as benchmarks for current surveys of industrial activity and for indexes of industrial production, productivity, and price, all of which are essential in developing the general background for understanding particular economic situations.

There is widespread use of the economic censuses by manufacturers and distributors who need to establish measures of

their potential markets in terms of areas, kinds of business, and kinds of products; and by managers in various industries and trades who need facts for purposes of economic or sales forecasting, for analysis of sales performance, for the layout of sales territories, for the allocation of advertising budgets, and for the location of plants, warehouses, and stores. For these business purposes, census facts are invaluable. Likewise, trade and professional associations need census information to learn how their industry is changing; chambers of commerce and State and local governments need to understand the business structure and changes occurring in their areas. Business magazines and academic researchers rely on census facts as background for many of their articles.

Following every census, reports are purchased by thousands of business and other users; likewise, census facts are widely disseminated by trade associations, business journals, and the daily press; and census volumes are available in all the major public and college libraries.

**History.**—The first statistical survey which can be called an economic census covered the year 1809, when inquiries on manufacturing were included with the 1810 census of population. Although the results of this pioneer effort were unsatisfactory by modern standards,<sup>1</sup> continued interest in measure-

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<sup>1</sup> For an appraisal of early censuses of manufacturing, see Meyer H. Fishbein, "The Censuses of Manufactures 1810-1890," National Archives Publication No. 63-22, June 1963. Government Printing Office.

# INTRODUCTION—Continued

ment of the Nation's economic progress led to successive improvements during the 19th century. By 1890, the statistical standards and procedures followed in conducting the censuses were of a fully professional quality.

All of the decennial censuses from 1810 through 1940, with the exception of 1830, included questions on manufacturing. Inquiries on mining first appeared in 1840, and censuses of mineral industries were conducted decennially through 1940. Although some business-related data were

collected in 1840, the first census of business was taken for the year 1929. This included retail trade, wholesale trade, and construction; selected service trades were covered beginning with 1933. Dates of these and other economic censuses from 1809 are shown in table A.

**Enterprise Statistics.**—The coordinated collection and tabulation of comparable data for several sectors beginning with 1954 has permitted the Census Bureau to develop its enter-

TABLE A. Years Covered by U.S. Economic Censuses: 1809 to 1972

Year covered	Manufactures	Mineral industries	Fisheries	Construction industries	Retail trade	Wholesale trade	Selected service industries	Transportation
1809.....	X	—	—	—	—	—	—	—
1819.....	X	—	—	—	—	—	—	—
1839.....	X	—	—	—	—	—	—	—
1840.....	—	X	—	—	—	—	—	—
1849.....	X	—	—	—	—	—	—	—
1850.....	—	X	—	—	—	—	—	—
1859.....	X	—	—	—	—	—	—	—
1860.....	—	X	—	—	—	—	—	—
1869.....	X	—	—	—	—	—	—	—
1870.....	—	X	—	—	—	—	—	—
1879.....	X	—	—	—	—	—	—	—
1880.....	—	X	X	—	—	—	—	—
1889.....	X	X	X	—	—	—	—	—
1899.....	X	—	—	—	—	—	—	—
1902.....	—	X	—	—	—	—	—	—
1904.....	X	—	—	—	—	—	—	—
1908.....	—	—	X	—	—	—	—	—
1909.....	X	X	—	—	—	—	—	—
1914.....	X	—	—	—	—	—	—	—
1919.....	X	X	—	—	—	—	—	—
1921.....	X	—	—	—	—	—	—	—
1923.....	X	—	—	—	—	—	—	—
1925.....	X	—	—	—	—	—	—	—
1927.....	X	—	—	—	—	—	—	—
1929.....	X	X	—	X	X	X	—	—
1931.....	X	—	—	—	—	—	—	—
1933.....	X	—	—	—	X	X	—	—
1935.....	X	X	—	X	X	X	X	—
1937.....	X	—	—	—	—	—	—	—
1939.....	X	X	—	X	X	X	X	—
1947.....	X	—	—	—	—	—	—	—
1948.....	—	—	—	—	X	X	X	—
1954.....	X	X	—	—	X	X	X	—
1958.....	X	X	—	—	X	X	X	—
1963.....	X	X	X	—	X	X	X	X
1967.....	X	X	X	X	X	X	X	X
1972.....	X	X	—	X	X	X	X	X



## INTRODUCTION—Continued

prise statistics program, which relates census company-level data to the establishment data. Thus, a measurement of the integration and diversification of the American enterprise system becomes available. Also, through the enterprise statistics program, it has become possible to link census establishment-based data on a modified basis to other statistical systems such as the Internal Revenue Service's "Statistics of Income" for corporations.

**Legal Provisions.**—Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered, the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes

the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1977. The pertinent portions of Title 13 are quoted in appendix D.

### 2. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

**General.**—In terms of the major industry divisions established in the national accounts, manufacturing is the largest sector of the economy. In 1972, manufacturing plants employed 19 million persons, 22 percent of the civilian labor force of 86.5 million. Over the past 20 years, as shown in table B, national

TABLE B. National Income by Industry Division for Selected Years

Industry	1929	1933	1939	1947	1954	1958	1963	1967	1972
Billions of dollars									
All industry divisions, total .....	86.8	40.3	72.6	199.0	303.1	367.8	481.9	653.3	941.8
Manufacturing .....	21.9	7.7	18.1	59.5	94.6	107.8	143.8	195.2	252.6
Nondurable goods .....	10.6	4.9	9.1	28.0	39.7	45.7	57.5	75.5	99.9
Durable goods .....	11.3	2.8	9.0	31.5	54.9	62.0	86.3	119.7	152.7
Wholesale and retail trade .....	13.5	5.6	12.6	37.6	48.3	58.2	73.3	97.5	139.7
Government and government enterprises .....	5.1	5.3	8.5	18.7	36.1	46.9	64.8	93.8	149.5
Services .....	8.8	5.1	7.6	18.1	27.8	38.4	54.1	78.5	120.1
Finance, insurance, and real estate .....	12.8	5.9	8.0	16.1	32.0	40.9	53.6	71.9	107.9
Contract construction .....	3.8	.8	2.3	8.4	15.6	19.0	24.1	33.2	51.7
Transportation .....	6.6	3.0	4.6	11.6	14.6	16.6	20.0	25.2	36.0
Agriculture, forestry, and fisheries .....	8.5	3.9	6.0	18.9	16.4	18.0	18.6	21.6	30.4
Electric, gas, and sanitary services .....	1.6	1.3	1.8	2.8	5.9	7.4	10.3	12.6	18.2
Communication .....	1.1	.8	1.1	2.3	5.1	7.0	9.8	13.1	20.0
Mining .....	2.1	.6	1.6	4.2	5.3	5.7	6.0	6.3	8.2
Rest of the world .....	.8	.3	.3	.8	1.6	2.0	3.4	4.5	7.5
Percent of total									
All industry divisions, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing .....	25.2	19.1	24.9	29.8	31.2	29.2	29.8	29.9	26.8
Nondurable goods .....	12.2	12.2	12.5	14.0	13.0	12.4	12.0	11.6	10.6
Durable goods .....	13.0	6.9	12.4	15.8	18.1	16.8	17.8	18.3	16.2
Wholesale and retail trade .....	15.5	13.9	17.3	18.8	15.9	15.8	15.2	14.9	14.8
Government and government enterprises .....	5.8	13.2	11.7	9.3	11.9	12.7	13.4	14.4	15.9
Services .....	10.1	12.7	10.4	9.0	9.1	10.4	11.2	12.0	12.8
Finance, insurance, and real estate .....	14.7	14.6	11.0	8.1	10.5	11.1	11.0	11.0	11.5
Contract construction .....	4.4	2.0	3.2	4.2	5.1	5.1	5.0	5.1	5.5
Transportation .....	7.6	7.4	6.3	5.8	4.8	4.5	4.2	3.9	3.8
Agriculture, forestry, and fisheries .....	9.7	9.7	8.3	9.4	5.4	4.8	3.8	3.3	3.2
Electric, gas, and sanitary services .....	1.8	3.2	2.4	1.4	1.9	2.0	2.1	1.9	1.9
Communication .....	1.2	2.0	1.4	1.1	1.6	1.9	2.0	2.0	2.1
Mining .....	2.4	1.5	2.2	2.1	1.7	1.5	1.2	1.0	.9
Rest of the world .....	.9	.7	.4	.4	.5	.5	.6	.7	.8

Source: Survey of Current Business, August 1965, pp. 42-45; July 1966, p. 15; July 1970, p. 21; and July 1973 p. 22.

# INTRODUCTION—Continued

income originating in manufacturing averages almost 30 percent of the total. In 1972, government and government enterprises surpassed wholesale and retail trade which historically was the next largest sector.

**Cyclical Changes.**—The need for frequent and comprehensive statistics on manufacturing derives as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement from 1929 to 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 60 percent of all manufactures during recent periods. This category tends to be more volatile than non-durable goods, generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. In the early thirties, for example, as shown in table C, durable goods manufacturing amounted to only about one-third of the total.

**Geographic Distribution.**—In the early and middle 19th century, manufacturing activity was concentrated in the

TABLE C. Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years

Year	National income (bil. dol.)	National income originating in manufacturing			Manufacturing as a percent of national income	Durable goods industries as a percent of total manufacturing
		Total (bil. dol.)	Nondurable goods industries (bil. dol.)	Durable goods industries (bil. dol.)		
1972 .....	941.8	252.6	99.9	152.7	27	60
1971 .....	859.4	226.4	91.8	134.6	26	59
1970 .....	800.5	217.5	88.9	128.6	27	59
1969 .....	766.0	222.3	85.8	136.4	29	61
1968 .....	711.1	212.7	82.1	130.6	30	61
1967 .....	653.6	195.2	75.5	119.7	30	61
1966 .....	620.6	191.5	72.9	118.5	31	62
1965 .....	564.3	172.6	66.5	106.1	31	61
1964 .....	518.1	155.6	61.9	93.6	30	60
1963 .....	481.9	143.8	57.5	86.3	30	60
1962 .....	457.7	137.0	55.6	81.4	30	59
1961 .....	427.3	125.1	52.8	72.3	29	58
1960 .....	414.5	125.8	52.2	73.6	30	59
1959 .....	400.0	124.0	51.1	72.9	31	59
1958 .....	367.8	107.7	45.7	62.0	29	58
1957 .....	366.1	116.3	46.4	69.9	32	60
1956 .....	350.8	113.1	46.2	66.8	32	59
1955 .....	331.0	107.9	44.0	63.8	33	59
1954 .....	303.1	94.6	39.7	54.9	31	58
1953 .....	304.7	100.4	40.3	60.1	33	60
1952 .....	291.4	92.5	38.2	54.3	32	59
1951 .....	278.0	90.2	38.4	51.8	32	57
1950 .....	241.1	76.2	33.3	42.9	32	56
1949 .....	217.5	64.8	30.5	34.2	30	53
1948 .....	224.2	68.7	32.9	35.8	31	52
1947 .....	199.0	59.5	28.0	31.5	30	53
1943 .....	170.3	58.3	19.6	38.6	34	66
1939 .....	72.6	18.1	9.1	9.0	25	50
1935 .....	57.2	13.4	7.3	6.1	23	46
1933 .....	40.3	7.7	4.9	2.8	19	36
1932 .....	42.8	7.3	5.2	2.1	17	29
1929 .....	86.8	21.9	10.6	11.3	25	52

Source: Survey of Current Business, August 1965, pp. 42-45; July 1966, p. 15; July 1968, p. 23; August 1970, p. 21; July 1972, p. 20; and July 1973, p. 22.



## INTRODUCTION—Continued

Northeast. Over the past hundred and twenty years, as shown in table D, there has been a steady decline in the proportion accounted for by the Northeastern States. Industry expanded into the North Central Region in the latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

**Size Distribution.**—Manufacturing activity tends to be characterized by relative large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, over half of the plants covered in the 1972 census had less than 10 employees and they accounted for less than 3 percent of the total value added by manufacture.

### 3. ROLE OF THE CENSUS OF MANUFACTURES

In the farm-oriented economy of the early 19th century, industrial statistics played a relatively small role in government policy formation. A few series on physical output of commodities originated either from private sources (flour, iron, and steel, etc.) or as a byproduct of tax collection or other government functions (liquors, beer, tobacco products, etc.). Other than these, the only sources of information on the manufacturing sector were the censuses of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased, and the user finds a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment, payrolls, hours worked, production, prices, inventories, orders, investment in structures, machinery, and equipment, and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and on a timely basis. Sophisticated indicators of economic progress have also been developed such as price and production indexes, gross national product, and national income, published at monthly or quarterly intervals.

In this setting, the census of manufactures still plays an essential role since no other source provides such comprehensive and detailed information on the structure of the industrial sector.

The census obtains, for every manufacturing plant with one employee or more, data on its input of labor, materials, and capital, its output of products and services, its location, and the legal form of organization of the owning firm.<sup>2</sup> These facts are obtained in sufficient detail to permit classification by industry, by size of plant, by homogeneity of output and, where desirable, by type of operation, extent of vertical integration, kind of equipment, relationship to other plants of the same firm, and other characteristics.

<sup>2</sup> For 1967 and 1972, some of this information for 120,000 small companies was not obtained directly but estimated from administrative records. See the discussion of coverage of establishments in sections 4 and 6 below.

**TABLE D. Employment in Manufacturing Establishments, by Region: 1849 to 1972**

Year	United States	Northeast	North Central	South	West
Number of employees (thousands)					
1972 .....	19,029	5,306	6,135	5,221	2,367
1967 .....	18,492	5,573	6,059	4,553	2,305
1963 .....	16,235	5,190	5,239	3,780	2,025
1958 .....	15,423	5,242	5,017	3,382	1,779
1947 .....	14,294	5,429	5,109	2,710	1,054
1939 .....	9,527	3,879	3,184	1,852	612
1929 .....	10,198	4,246	3,516	1,758	675
1899 .....	5,077	2,629	1,474	793	181
1849 .....	957	696	110	146	4
Percent of U.S. total					
1972 .....	100	28	32	27	13
1967 .....	100	30	33	25	12
1963 .....	100	32	32	23	13
1958 .....	100	34	33	22	12
1947 .....	100	38	36	19	7
1939 .....	100	41	34	20	6
1929 .....	100	42	35	17	7
1899 .....	100	52	29	16	4
1849 .....	100	73	12	15	—

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries, which were excluded from the censuses of manufactures beginning with 1899.

Source: Census of manufactures.

— Represents zero.

**TABLE E. Number of Manufacturing Establishments and Value Added by Manufacture, by Size Class of Establishment: 1972**

(Cumulative percentage)		
Size class	Number of establishments	Value added by manufacture
All establishments, total .....	100.0	100.0
1 to 4 employees .....	35.9	1.1
1 to 9 employees .....	50.8	2.5
1 to 19 employees .....	64.8	5.4
1 to 49 employees .....	77.6	12.6
1 to 99 employees .....	89.0	20.9
1 to 249 employees .....	95.6	36.9
1 to 499 employees .....	98.2	51.4
1 to 999 employees .....	99.3	65.1
1 to 2,499 employees .....	99.8	79.3

General statistics (that is, total employment, payroll, production-worker employment, man-hours, wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) from the census of manufactures are published by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Information is supplied on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); and overall measures of manufacturing activity are shown at the county and individual-city level provided there are at least 450 employees in manufacturing and the information can be published without compromising the confidentiality of individual company data. Since a significant amount of industry detail cannot be published for the 3,140 counties and county equivalents in the United States, a special computer tape on "Location of Manufacturing Plants" is available for data users. This tape includes the number of establishments in each of the 450 industries by county or county equivalent area, by employment size. Information such as this constitutes a periodic inventory of the geographic dispersion of the Nation's manufacturing economy that provides a benchmark for measuring the change in its structure.

The census of manufactures also provides benchmarks from which more frequent surveys can be developed on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an Annual Survey of Manufactures (ASM) on a sample basis during the intervening years. After each 5-year census, a new sample is drawn utilizing the characteristics recorded for each company in the census. The sample, constituting about one-fifth of the establishments but with complete coverage of all large ones, provides an annual updating of the census of manufactures in terms of broad measures of economic activity. It provides the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but contains less detailed information on products, materials consumption, and equipment.<sup>3</sup>

The census of manufactures not only is a benchmark for many of the surveys conducted by the Census Bureau itself on a more frequent basis but also is the means of updating other indicators of economic activity. It provides very important information on the manufacturing segment used in the national income accounts. Census data on materials consumed and product output are basic to the manufactures sector of the

input-output studies of the Bureau of Economic Analysis. The information derived from the census of manufactures is also used to develop indexes of industrial production for census years. These indexes are used as benchmarks for the monthly Federal Reserve Board Index of Industrial Production—a key indicator of current economic activity. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Census Bureau, other government agencies, and by manufacturers' associations.

#### 4. INDUSTRY AND PRODUCT CLASSIFICATION

**Structure of the Standard Industrial Classification.**—The basic classification system employed in the economic censuses is the Standard Industrial Classification (SIC). The SIC was developed for use in the classification of establishments (see "Establishment Basis of Reporting," page 9) by type of activity in which engaged. It covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for 3-digit groups and finally for 4-digit industries. To illustrate—

##### Division D.—Manufacturing

Major Group 20	Food and kindred products
Industry group 202	Dairy products
Industry 2023	Condensed and evaporated milk

The SIC is the responsibility of an intragovernmental technical committee headed by the Office of Management and Budget. The system is used by all Federal Government agencies engaged in the classification of establishments. To

<sup>3</sup>Since the ASM is based on a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 450 industries. However, at the State and SMSA levels, statistics are published only for 3-digit and 2-digit industry groupings, respectively. At the county level, information is published for about 10 percent of the 3,140 counties and equivalent areas. These 300-odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. Data for cities are shown for those cities having over 20,000 manufacturing employees.



facilitate comparison with Federal statistics and the filing of reports, many State and local governments and business concerns organize their own records along SIC lines.

The first SIC manual was issued in 1939. For the manufacturing sector, the nucleus of the manual was the census of manufactures industry classifications developed over a period of many years. A revised manual was issued for the manufacturing industries in 1945 which, with minor modifications, was used in the 1947 census of manufactures. For the 1954 census, the classification structure used in 1947 was again employed, with minor modifications. In 1957, the SIC system was extensively revised for manufacturing industries and the historical comparability of some data was seriously affected. This revision and its effects on census series are described in the introduction and appendixes to the 1958 census volumes. Minor revisions of the SIC between 1958 and 1967 introduced some 4-digit industry changes but none of them crossed 3-digit group lines. Another extensive revision of the SIC was completed in 1972 which also affected the comparability of industry data. The discussion of the revisions and the impact on comparability appears in appendix B, as well as in parts of each individual industry chapter.

**Structure of the SIC Manufacturing Division.**—For the manufacturing division, the 20 2-digit SIC Major Groups (20 to 39) are subdivided into 143 3-digit SIC Groups (201 to 399) and into 451 4-digit industries (2011 to 3999). While the SIC contains 451 industries, the Bureau of the Census has combined one small industry with another for a total of 450 industries.

Most of the 451 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and are competitive. In determining the boundaries of product-defined industries,<sup>4</sup> it is essential that each industry comprise a group of establishments whose output of products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries. Some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3361, Aluminum Foundries (castings). A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture).

<sup>4</sup> Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers or they may be individually grouped with other products of similar materials such as converted paper products, wood products, glass products, etc.

There are wide differences among industries in the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries (that is, secondary products), and (c) use similar materials or processes. While these variations are frequently construed to be shortcomings, the fact is that the limitations observed in the classification structure arise from the inherent complexity of our economic system and from the disparity in the methods of production among the individual producing units of which it is comprised. The data collected in the census of manufactures provide a statistical basis for a critical evaluation of the classification system; that is, for assessing the boundaries between industries, the growth and decline of industries, and the impact of technological change on the classification of industries.<sup>5</sup>

No general-purpose system of industrial classification can hope to satisfy all users of census data. Some business users will be interested primarily in data relating only to themselves and to their competitors in the production of a narrow range of products; others will wish data relating to all products, including complementary and substitutable products, competing in a particular market; others may wish data relating to the consumers of one or more types of materials. Some may be interested only in the data for plants producing a specific product; others only for those plants producing a "full line" of products. The large number of SIC industries provides the analyst with the "building blocks" for obtaining useful approximations, if not "clean" data, relevant to many of these problems. But, at best, a single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached beyond which the adaptation of a system to serve one use somewhat better will reduce its ability, often disproportionately, to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries into broad groupings along lines different from those in the SIC 2- and 3-digit categories. The Federal Reserve Board for many years has made combinations to stress such criteria as durable, nondurable, consumers, producers, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. By and large, the 4-digit industries are susceptible to allocation to such categories, while the 2-digit SIC groups are not.

**Subindustries.**—To increase the usefulness or improve the editing of the data, the Census Bureau frequently has further classified the basic 4-digit SIC industries into "subindustries." This device is employed where there are wide disparities in the

<sup>5</sup> See "Industry Classification and Sector Measures of Industrial Production" by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and "Historical Comparability of Census of Manufactures Industries, 1929-1958" by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

operating ratios of the plants in the industry because of differences among plants in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. This technique was used for about 61 manufacturing industries for editing purposes and many were regarded as significant enough to be used for publication: For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries, and many apparel industries (Group 23) are subclassified into manufactures, contractors, and jobbers.

To provide a further measurement of variations within 4-digit industries, the Bureau also subclassifies establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry. This is in effect a subindustry classification based on degree of product specialization which is published in table 5A of the industry chapters.

**Definition of Manufacturing.**—As defined in the SIC, manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. However, some manufacturers (for example, baking, milk bottling, etc.) sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, binding, platemaking, etc.) are included in manufacturing when they are performed primarily for trade; but they are considered nonmanufacturing when they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

**Auxiliary Units.**—In addition to the production of goods and manufacturing services, manufacturing plants engaged in related and diverse supporting activities. These activities encompass the acquisition of materials to be processed, their movement into the manufacturing facility, their storage at the manufacturing site, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary

activities associated with the operation of the establishment as a manufacturing entity (for example, management and policy formation, product and market orientation, engineering and quality control, recordkeeping and accounting, physical security of plant and equipment, and the like). Such subsidiary activities may be performed by personnel located at the manufacturing facility or at an auxiliary unit serving one or more manufacturing locations of the same company. Where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for central administrative offices and auxiliaries. (See the description of the questionnaire used for these establishments, Form NC-X6, in section 7, below.)

**Marginal Activities.**—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.

(b) Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

In the 1972 census, no attempt was made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,<sup>6</sup> ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

<sup>6</sup> Separate data for retail bakeries with baking on the premises were included in the retail census publications, however.



Conversely, it is not unusual for manufacturing establishments to engage also in nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the 1972 economic censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to reported dollar volume of receipts from each type of activity in determining the primary industry, since manufacturing requires considerably more man-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

**Establishment Basis of Reporting.**—The SIC is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a report for each location; also, a company engaged in distinctly different lines of activity at one location is required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in each of two or more distinct lines of manufacturing as defined in the SIC. Frequently, companies organize their operations and their records separately where diverse activities are large (for example, with more than 100 employees in each line of activity) and choose to report them as separate plants. When they do not do so on their own initiative, the Census Bureau requests separate reports. For the most part, companies have

responded favorably, particularly for very large operations where failure to "split out" the different activities would significantly distort the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines by many of the same employees and could not be distinguished sufficiently in company records to provide establishment-type reporting.

SIC industry definition takes account of special situations where otherwise separately classifiable activities are frequently combined at one location. For example, in the lumber area the definition of industry 2421, Sawmills and Planing Mills, General, recognizes the situation that sawmills may include logging operations. Similarly, in the pulp and paper area, pulp-mills operated in combination with papermills are included in one report.

**Coverage of Establishments.**—The censuses of manufactures for 1947 to date have included establishments with one employee or more. Beginning with the 1967 census, reports were not obtained directly from all such establishments. Approximately 120,000 small single-unit manufacturing firms<sup>7</sup> identified as having less than 10 employees were excused from filing reports. Under special arrangements which safeguarded the confidentiality of both tax and census records, limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the Internal Revenue Service (IRS) were made available to the Census Bureau for use in the 1967 and 1972 economic censuses. Estimates for data other than payrolls and sales for these small establishments were constructed from historical industry ratios. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, they account for only 1.2 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" category.

In the censuses of 1921 through 1939, establishments with less than \$5,000 value of products were excluded. For 1899 to 1919, the limit was \$500. The change in the minimum size limit to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except for the number of establishments.<sup>8</sup>

A sample survey of manufacturing plants with no paid employees was conducted in conjunction with the 1958 census. While there were nearly 52,000 establishments in this category in that year, they accounted for only about one-quarter of 1 percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups such as lumber and wood products and printing and

<sup>7</sup> The characteristics of these firms are discussed below in section 15.

<sup>8</sup> This point is discussed at greater length in the Introduction to the 1947 volumes.

publishing. Tabulation of IRS data for 1972 indicates that there were 104,000 tax returns completed as manufacturing that had no payrolls under SSA standards. These accounted for a little over one-quarter of 1 percent of the total value of shipments for all manufacturing industries.

As indicated above, report forms were not mailed to 120,000 very small establishments. These establishments were assigned the industry classifications to which they had been coded in the 1967<sup>9</sup> Census of Manufactures if they had been in business for that year, or if they had begun in business after 1967 they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the Social Security Administration. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the total establishment count should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 or more employees are far more reliable than the total number of establishments.

**Primary and Secondary Products.**—As applied in the economic censuses, the SIC coding system operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad 2-digit groups, 143 3-digit groups, and 451 4-digit industries. In addition, the Census Bureau has developed a product coding system based on the SIC, which contains 1,293 5-digit product classes and approximately 10,500 individual 7-digit products. (See "The Classification of Products and Materials" below.) The 7-digit products and 5-digit product classes are considered the primary products of the industry with the first four digits the same as the product code. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest such value as the establishment's industry classification. However as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, pay-

rolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry chapters in Volume II) reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. The product statistics in tables 5A and 6B of the industry chapters represent the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the industry statistics in the industry chapters, especially the industry total value of shipments (tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in tables 5B and 5C should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios which are computed from tables 5B and 5C. The first of the ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

**Degrees of Integration.**—In many industries, establishments making products falling into the same industry category use a wide variety of processes and materials to produce them. Also, within the same industry classification based on end products, those establishments may be included which are vertically integrated and those which put only the finishing touches on an already highly fabricated purchased item. For example, in the refrigeration industry, there are instances of almost complete process integration in which the production of the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly, are all carried on at one plant. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. For those industries where the integrated type of operations is of consequence, that fact is pointed out in the explanatory text for the industry.

<sup>9</sup> Establishments which were in the 1967 Administrative Record File would have been assigned industry codes from the 1963 Census of Manufactures.



**Industry Code Resistance.**—The production of many establishments is so evenly divided among two or more industry-determining product groups that the predominant groups (which can represent less than half of the total value if there are three or more groups) change from year to year. In the ASM, these plants are prevented from shifting back and forth among industries due to minor shifts in product mix, by the application of a “resistance formula” in assigning industry classifications.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures and again applied in the 1967 census. In the 1972 census, the formula was applied only to establishments included in the 1971 ASM sample panel with certainty (that is, included with a probability of “1”). In general, certainty cases included all establishments of companies with at least one manufacturing plant with 250 employees or more.

The formula gives approximately equal weight to the need for maintaining continuity in the establishment composition of an industry, thus improving the measurement of change and the need for reflecting the industry’s exact status at a point in time.

In the 1972 census, the industry classification of certainty establishments was allowed to change from that assigned in 1971 under one of the following conditions:

- (a) The value of the 1972 primary products constituted 60 percent or more of its total value of product shipments, or
- (b) The value of the 1972 primary products, while less than 60 percent, was at least twice the value of products which had been primary in 1971.
- (c) The value of 1972 primary products, while not meeting either of the two prior conditions, exceeded the value of the 1970 primary industry’s products in both 1972 and 1971 by at least 20 percent.

**The Classification of Products and Materials.**—In census industrial statistics, a commodity classification system based on the SIC is employed. The code numbers used in this system relate the commodity to the industry in which it is produced. For example, the 7-digit product code number 2023212 refers to canned evaporated milk. The first five digits of this code number, 20232, refer to the “product class” canned milk, and the first four digits, 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The system is also applied to the coding of materials insofar as the first four digits are concerned; for example, the code number 024111 refers to whole milk used as a material, and the first four digits of this code number 0241, refer to the agricultural industry, dairy farms, where this product originates.

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women’s sweaters are produced in knitting mills (industry 2253) and also in cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, therefore, it is necessary to assign different product code numbers to women’s sweaters, depending on where they are made.

The SIC-based commodity classification is used in the Census Bureau’s entire industrial statistics program, including monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.<sup>10</sup>

## 5. GEOGRAPHIC CLASSIFICATION

**Census Divisions and Regions.**—In order to present census data at a level intermediate between the U.S. total and those for the individual 50 States and the District of Columbia, the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic divisions have been used. Beginning with the 1939 census, the nine divisions were also classified into four geographic regions: Northeast, South, North Central, and West.

Not only are these groupings convenient for the summary presentation of census data below the U.S. level, but they are also essential to presenting a maximum of geographic information where the individual State data cannot be shown without disclosing figures for individual companies. (See section 22, “Confidentiality”.) The relative importance of manufacturing among the regions, divisions, and States is shown in table F.

**Standard Metropolitan Statistical Areas.**—In addition to the data for the legally constituted geographic units (States, counties, and cities), all manufacturing totals are shown for approximately 263 standard metropolitan statistical areas (SMSA).<sup>11</sup> In the 1972 tables, detail for 2-, 3-, and 4-digit industries is shown for any SMSA when it would not disclose data for individual companies and the industry had at least 250 manufacturing employees. This is the same procedure as that used in the 1967 census. Prior to 1967, detail had not been shown for SMSA’s with under 40,000 total manufacturing employment, and only industry group figures were

<sup>10</sup>Schedule B is the U.S. export classification while TSUSA is applied to imports.

<sup>11</sup>See appendix F for a description of each SMSA.

## INTRODUCTION—Continued

TABLE F. Value Added by Manufacture for Regions, Divisions, and States: 1972

Region, division, and State	Value added by manufacture (mil. dol.)	Percent of U.S. total	Region, division, and State	Value added by manufacture (mil. dol.)	Percent of U.S. total
United States, total .....	353,994.0	100.0	South Region—Con. South Atlantic Div.—Con.		
Northeast Region .....	92,839.1	26.2	Virginia .....	6,177.5	1.7
New England Division .....	22,508.2	6.4	West Virginia .....	2,646.7	.7
Maine .....	1,383.4	.4	North Carolina .....	11,014.5	3.1
New Hampshire .....	1,278.6	.4	South Carolina .....	4,965.6	1.4
Vermont .....	576.0	.2	Georgia .....	7,385.8	2.1
Massachusetts .....	10,677.5	3.0	Florida .....	5,786.8	1.6
Rhode Island .....	1,764.4	.5	East South Central Division .....	21,233.5	6.0
Connecticut .....	6,828.3	1.9	Kentucky .....	5,682.1	1.6
Middle Atlantic Division .....	70,330.9	19.9	Tennessee .....	7,662.0	2.2
New York .....	30,403.5	8.6	Alabama .....	5,064.8	1.4
New Jersey .....	16,408.9	4.6	Mississippi .....	2,824.7	.8
Pennsylvania .....	23,518.5	6.6	West South Central Division .....	24,602.8	7.0
North Central Region .....	123,535.0	34.9	Arkansas .....	2,799.8	.8
East North Central Division .....	99,950.5	28.2	Louisiana .....	4,273.4	1.2
Ohio .....	27,171.0	7.7	Oklahoma .....	2,270.1	.7
Indiana .....	14,111.6	4.0	Texas .....	15,259.4	4.3
Illinois .....	25,848.9	7.3	West Region .....	47,431.8	13.4
Michigan .....	23,375.7	6.6	Mountain Division .....	7,445.5	2.1
Wisconsin .....	9,443.3	2.7	Montana .....	462.5	.1
West North Central Division .....	23,584.5	6.7	Idaho .....	820.8	.2
Minnesota .....	5,523.8	1.6	Wyoming .....	143.9	—
Iowa .....	4,757.7	1.3	Colorado .....	2,504.3	.7
Missouri .....	8,169.0	2.3	New Mexico .....	358.0	.1
North Dakota .....	200.7	.1	Arizona .....	1,879.6	.5
South Dakota .....	284.5	.1	Utah .....	1,068.7	.3
Nebraska .....	1,733.4	.5	Nevada .....	207.7	.1
Kansas .....	2,915.4	.8	Pacific Division .....	39,986.3	11.3
South Region .....	90,188.1	25.5	Washington .....	4,721.4	1.3
South Atlantic Division .....	44,351.8	12.5	Oregon .....	3,489.9	1.0
Delaware .....	1,291.9	.4	California .....	31,194.6	8.8
Maryland .....	4,706.9	1.3	Alaska .....	170.4	.1
District of Columbia .....	376.0	.1	Hawaii .....	410.0	.1

—Represents zero.

shown for SMSA's with 40,000 to 190,000 employees. Between 1967 and 1972, a significant number of SMSA's were redefined in content or became new SMSA's. These changes are discussed in appendix E.

Standard metropolitan statistical areas are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of the area. Each area (except in New England) consists of one whole county or more. An area may contain not only highly industrialized

counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas for general-purpose use in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining standard metropolitan statistical areas, but on a city and town basis because towns are regarded as the significant unit in this region of the country.



INTRODUCTION—Continued

TABLE G. The 50 Largest SMSA's Ranked by Value Added by Manufacture: 1972, 1967 and 1963

Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1972 rank	1967 rank	1963 rank	Standard metropolitan statistical area	Number of employees (thousands)	Value added by manufacture (mil. dol.)	1972 rank	1967 rank	1963 rank
Chicago, IL .....	909.6	1,757.3	1	2	2	Atlanta, GA .....	132.4	2,472.3	26	29	30
Los Angeles-Long Beach, CA .....	778.9	15,234.9	2	3	3	Seattle-Everett, WA .....	108.6	2,234.7	27	22	21
New York, NY-NJ* .....	949.2	15,120.8	3	1	1	Dayton, OH .....	118.8	2,152.9	28	24	26
Detroit, MI* .....	551.6	11,694.3	4	4	4	Gary-Hammond-East Chicago, IN .....	99.4	2,159.0	29	28	20
Philadelphia, PA-NJ .....	495.7	9,189.9	5	5	5	Columbus, OH .....	102.4	1,989.2	30	39	34
Newark, NJ .....	271.8	5,608.6	6	9	8	Providence-Warwick, Pawtucket-RI-MA* .....	131.9	1,959.9	31	32	32
Cleveland, OH .....	268.9	5,220.9	7	6	6	Jersey City, NJ .....	95.3	1,899.2	32	30	24
St. Louis, MO-IL .....	256.2	5,161.1	8	7	7	Toledo, OH-MI .....	91.2	1,878.9	33	36	37
Boston, MA* .....	266.5	4,918.9	9	8	9	Denver-Boulder, CO .....	95.5	1,849.8	34	41	36
Rochester, NY .....	142.2	4,390.6	10	13	19	Allentown-Bethlehem-Easton, PA-NJ .....	110.4	1,805.6	35	43	40
Houston, TX .....	162.7	4,179.4	11	14	18	Youngstown-Warren, OH ..	86.6	1,749.5	36	35	38
Pittsburgh, PA .....	262.8	4,163.9	12	10	10	Akron, OH .....	94.4	1,686.2	37	34	33
Dallas, Fort Worth, TX* ..	230.0	4,075.7	13	27	28	Portland, OR-WA .....	86.4	1,596.9	38	42	44
San Francisco-Oakland, CA .....	184.8	3,807.9	14	11	11	Grand Rapids, MI .....	74.9	1,515.4	39	44	42
Minneapolis-St. Paul, MN-WI .....	199.0	3,734.8	15	16	17	Hartford, CT .....	86.4	1,395.5	40	33	35
Milwaukee, WI .....	200.0	3,700.0	16	12	13	Phoenix, AZ .....	71.9	1,379.0	41	—	—
Cincinnati, OH-KY-IN ....	157.6	3,561.2	17	17	15	Memphis, IN-AR-MS .....	64.2	1,352.4	42	—	—
Baltimore, MD .....	180.1	3,476.2	18	15	12	Albany-Schenectady-Troy, NY .....	66.9	1,322.0	43	49	46
Buffalo, NY .....	151.7	3,146.3	19	18	14	Miami, FL .....	86.0	1,219.0	44	—	—
Louisville, KY-IN .....	113.4	3,022.8	20	20	22	Syracuse, NY .....	60.5	1,205.3	45	46	43
Kansas City, MO-KS .....	118.8	2,902.4	21	21	23	Paterson-Clifton-Passaic, NJ .....	75.5	1,179.4	46	19	16
San Jose, CA .....	134.4	2,873.1	22	25	29	Springfield-Chicopee-Holyoke, CT .....	62.1	1,157.7	47	45	47
Anaheim-Santa Ana-Garden Grove, CA .....	131.0	2,734.4	23	23	27	Canton, OH .....	57.6	1,151.6	48	48	48
Greensboro-Winston-Salem-High Point, NC ...	138.0	2,593.4	24	31	—	Bridgeport, CT .....	63.7	1,137.6	49	40	41
Indianapolis, IN .....	122.5	2,525.3	25	26	25	Birmingham, AL .....	68.9	1,123.8	50	47	39

Note: The Flint, Mich., SMSA falls within the top 50 SMSA's but is excluded from this table to avoid disclosing figures for individual companies.

— Represents zero. \*The definition of this SMSA changed for 1972. See appendix F for a description of each SMSA and changes in content.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined

would be limited by the fact that many types of economic and social data are available only on a county basis.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include one or two additional city names.

Value added by manufacture in all SMSA's accounted for 78 percent of the U.S. total in 1972. The relative importance

of the 50 largest SMSA's in 1972 and their rankings in the 1967 and 1963 censuses are shown in table G.

**Industrial Counties.**—In addition to industry statistics for standard metropolitan statistical areas, table 7 of each State report, presents data by county for each industry group (2- and 3-digit) that had at least 450 manufacturing employees

and where it would not result in disclosure of figures reported by individual companies.

**Cities with 450 Manufacturing Employees or More.**—Summary totals and industry detail at the 2-digit level are shown for individual cities with 450 manufacturing employees or more, provided the data do not disclose information for individual companies.

## II. METHODS

### 6. PLANNING AND PREPARATION

**General.**—The Census Bureau has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is solicited in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, studies of the problems encountered in the previous censuses are undertaken, and proposals to improve the methods of collection, processing, and tabulation are explored.

**Mailing Lists.**—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from Internal Revenue Service (IRS) and Social Security Administration (SSA) records.<sup>1 2</sup> These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, it was decided to investigate the feasibility of making greater use of the data in the IRS-SSA records. This effort led, in the 1967 censuses, to the exemption of over 2,000,000 firms from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS-SSA records. Well in advance of the data collection phase of the censuses, plans for using these records for small employers were developed in close cooperation with those agencies. Specific procedures for this use and for assuring confidential treatment of individual tax returns were set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The basic records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The information obtained from these reports was the name and address, payrolls, and gross business receipts. In addition, an SIC indus-

trial activity code was assigned by use of the permanent SSA records which indicate the industry or kind of business of each employer. Other census statistics for these small firms were imputed, using industry average ratios to payrolls and sales.<sup>1 3</sup>

Since the 1967 procedure was successful, it was repeated in the 1972 economic censuses. In 1972, there was a concerted effort by the Census Bureau to improve the industry coding of the administrative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC. (A sample classification card is reproduced in appendix C.)

**Planning the Content of Questionnaires.**—As in previous censuses, the content of the 1972 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the basic data and those who use the resulting statistics. Those consulted included government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all national manufacturers' associations covering specific industries.

A special effort was made to obtain the advice of individual manufacturers and their trade associations as to the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1972 product sections were circulated among 800 trade associations and about 4,000 manufacturing companies, both large and small. These inquiries followed the pattern of the 1967 census inquiries, with the introduction of new product detail reflecting suggestions received by the Census Bureau after the 1967 canvass. Small items (those valued at \$5 million or less) were not retained in the list unless they were needed to simplify the classification of other products or were of strategic importance. The manufacturers and others consulted in this clearance procedure were requested to comment particularly as to whether

<sup>1 2</sup> The 1947 Census of Manufactures list was also obtained from the SSA.

<sup>1 3</sup> As discussed elsewhere in this introduction, the amount of imputation introduced by this procedure was only about 1 percent of the overall totals.



the proposed detail was readily reportable from business records, and whether it represented the most appropriate set of items for the industry. A restriction was placed on proposals for additional detail; it was stipulated that the 1972 value of any new product category should exceed \$20 million.

The thousands of comments and suggestions received in this clearance procedure were analyzed by the census staff. Finally, a detailed account of the review procedure and the decisions reached was forwarded to the Office of Statistical Standards, Office of Management and Budget, along with the Census Bureau's recommendations for the content of the product sections.

The final review of the content was performed by the Office of Statistical Standards with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives representing a cross section of industries and various professions within companies such as controllers, economists, and market research directors.

## 7. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in appendix C. The uses of each of them are discussed below.

**General Forms.**—This group of forms was used in the economic censuses generally, either as companywide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

**NC-X1A, Report of Company Organization.**—This companywide report and its companion forms NC-X1B and NC-X1C were used in the prec canvass of multiunit companies conducted in 1972. A more detailed account of their use is given in section 8, "The Mailing Lists."

**NC-X2, Listing of Additional Establishments.**—This form was mailed to all multiestablishment companies together with the 1972 Census of Manufactures forms to obtain a list of establishments that were acquired after the NC-X1A was filed. These plants were then classified, added to form NC-X1A, and mailed report forms. Plants under construction were requested to report expenditures put in place during 1972 and the total gross book value of assets at the end of the year.

**NC-X3, General Schedule.**—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-X3 was used to classify these companies by industry and tabulate their data in the appropriate census.<sup>14</sup>

**NC-X6, Central Administrative Offices or Auxiliary Establishments.**—Many multiunit companies maintain separate establishments to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies. These establishments were asked to complete form NC-X6. The form contained questions on approximate employment for such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments.

**NC-K1, Company Summary Report.**—Each multiunit company with 250 employees or more received a form NC-K1, Company Summary Report, along with the appropriate questionnaires for its establishments. The NC-K1 requested consolidated company totals for key data items, such as receipts, new capital expenditures, inventories, and fixed assets. In addition, each company was asked to distribute the 1972 employment reported on its establishment questionnaires by its IRS-SSA employer identification numbers (EI numbers) and to compare these totals to the figures reported on its Treasury Form 941 tax returns. This comparison provided assurance that all domestic establishments of each large multiunit firm and its subsidiaries would be included in the censuses. Form NC-K1 served this operational purpose and also provided essential data for the enterprise statistics program described above in section 1.

**Census of Manufactures Forms.**—The questionnaire reproduced in the appendix, form MC-36B, is typical of the 180 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. For establishments included in the Annual Survey of Manufactures sample, form MA-100 was substituted for the front sheet of form MC-36B and its companion forms, since the content was virtually the same and it was desired to maintain continuity of reporting in the ASM. Whether or not form MA-100 was used, the inquiries on the 180 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics such as operations performed, equipment used, and delivery of products.

**Annual Survey of Manufactures Forms.**—Form MA-100 is the establishment report used in the ASM since 1949 (with modifications). As mentioned above, this form was used in 1972 as the first sheet of the census of manufactures report for the establishments included in the ASM sample. The establishment's 1971 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 9, "Quantity and value of products shipped and other receipts," on form MA-100 corresponds to item 18 on the census form MC-36B and its companion forms,

<sup>14</sup> The use of Form NC-X3 is also discussed in section 8, "The Mailing Lists."

the difference being that item 18 called for more detailed information on product shipments.

**Other Related Forms.**—Form CB-51J, "Manufacturers' Sales Branches and Sales Offices," which is reproduced in appendix C, is typical of the several forms used for these establishments in the census of business. The forms differed only in the kinds of products sold as listed in item 12. In item 5, line b provided verification of the classification of the establishment as a sales branch or sales office. If the line-b percentage indicated that more than half of the goods sold were not manufactured by the parent company, the establishment was reclassified into one of the merchant wholesaler categories.

**MC-171, Department of Defense Establishments, and MC-D4, Penal Institutions.**—These forms were used to collect information on government-owned and government-operated manufacturing establishments. They were used for two types of establishments: (1) Manufacturing facilities owned and operated by the Department of Defense, and (2) prison industries (Federal, District of Columbia, and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information was provided on employment, man-hours, payrolls, cost, and value of work done, by industry group and by State. For prison industries, however, only product data were requested. The data are presented in a special report included in Volume I and are not included in the totals for operating manufacturing establishments.

## 8. THE MAILING LISTS

**General.**—As discussed in section 6 above, the basic lists for 1972 were obtained from IRS-SSA records, supplemented importantly by the inclusion of the ASM list of 68,000 establishments. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,<sup>15</sup> it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

**The Precanvass.**—Multiunit companies were required to file at least one establishment report<sup>16</sup> covering each location. In order to select the appropriate questionnaires, it was necessary

to determine in advance the nature of operations at each location. Beginning early in 1972, therefore, a "Report of Company Organization" (forms NC-X1A, NC-X1B, and NC-X1C)<sup>17</sup> was obtained from firms known to be multiunits from previous census records. Form NC-X1A was mailed to all of the larger multiunit companies. Form NC-X1B was mailed to multiunit companies operating under 4 or less employer-identification numbers and having 13 or less operating establishments. Form NC-X1C was mailed to multiunit companies which were operating under one employer-identification number, having 4 or less operating establishments and a total employment of 100 or less.

All of these forms consisted essentially of a report on company affiliation and a list of the domestic establishments operated by the company. Before the forms were mailed, the company's establishments as identified in census records were prelisted. In the instructions for form NC-X1A, the respondents were asked to make any necessary corrections to this list. In addition, they were asked to supply descriptions of any new establishments not already listed, including their approximate size.

Large multiunit companies were segregated for special handling in the prec canvass because problems involving overlap and duplication were anticipated. Many of these companies were active in retail and wholesale trade as well as in manufacturing. The instructions for the prec canvass were reviewed with these firms in personal discussions with officials of their accounting departments, in order to make certain that the procedure was understood and the establishments properly described on form NC-X1A.

**Initial Control File.**—This file, consisting of about 10 million names and addresses of companies, was assembled from IRS-SSA records and other sources including the 1972 economic census records. For manufacturing, the ASM records were incorporated in the file.

**Single-Unit Companies.**—The mailing lists for single-unit companies (those operating at only one location) were developed from the initial control file by removing out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the prec canvass. A special survey of out-of-scope companies with more than 50 employees in selected industries was conducted to doublecheck their eligibility, and some names were added to the mailing list as a result. Single units with over 150 employees were mailed form NC-X1B to determine if they were multiunits.

The final step was to set aside the records of the small companies for which census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

<sup>17</sup> These forms are reproduced in appendix C.

<sup>15</sup> The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Census Bureau concept of a company differs from the IRS-SSA definition, since the Census company includes all establishments under common ownership or control; in the IRS-SSA records, subsidiary corporations are often treated as independent companies.

<sup>16</sup> If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "Establishment Basis of Reporting" in section 4, above.)



Classification cards (a sample form is reproduced in appendix C) were mailed to the administrative record cases if their historical code was involved in the 1972 SIC revision. Each establishment was requested to describe on the questionnaire the products manufactured or activity performed at their plant, the establishment was then classified according the response received. If a response was not received, the establishment was reclassified to the most probable industry.

**General Schedule.**—While the lists assembled in these ways were generally adequate in providing sufficient industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-X3, "General Schedule," which is reproduced in appendix C, was mailed to all such companies. Since it was assumed that these companies were quite small, only a few key figures were requested. On the basis of the information reported, these reports were coded and included in the basic tabulations. If form NC-X3 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

## 9. GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by standard metropolitan statistical areas, counties, and cities. As in previous censuses, the post office address and ZIP code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address, city, town or village, county, and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

The geographic coding system used in the 1972 economic censuses was based on the 1967 system with some improvements and revisions. The major changes included updating and

expanding the address reference file and the use of new techniques in coding and unscrambling addresses against the reference file.

## 10. DATA COLLECTION

**General.**—Although the greater use of administrative records in 1972 substantially reduced the number of companies canvassed directly, there remained nearly 2 million which were required to file, including about 192,000 manufacturers. The assembly of several hundred different questionnaires into mailing packages, correctly labeled and coded, combined with the correct instruction booklets, was an extensive operation.

**Instructions.**—Several general instruction booklets were prepared to assist respondents in completing questionnaires for the 1972 economic censuses. In addition, separate detailed instruction manuals were printed for establishments in a few kinds of business and in certain mineral industries with peculiar reporting problems, as well as for manufacturing establishments reporting on the detailed standard forms.

**Timing.**—The bulk of the 1972 questionnaires was mailed by mid-January 1973 with a due date of February 15, about 2 months earlier than the corresponding due date for the 1967 censuses. The collection phase was completed in late July 1973, which was about 3 months earlier than the 1967 census.

**Followup.**—Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. A reminder card was used for the first followup, and form letters were used in the four subsequent mailings. Two basic letter formats were used: one for multiunit companies that had returned questionnaires for some but not all establishments and the other for companies that had not responded at all.

In addition to the letters for the 3d, 4th and 5th followups, analysts made telephone calls to the large companies to help with reporting problems and to request that the forms be completed and returned.

The last followup letter was mailed in June 1973. Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in July 1973. Thus, all companies and establishments included in the original mailing list (except those determined to be inactive during 1972) were represented in the final statistical results, either by actual returns or by proxy returns generated from administrative records. A special effort was made to obtain actual returns from all large firms, so that the volume of business represented by proxy returns was relatively very small.

## 11. DATA PROCESSING

**General.**—The editing,<sup>18</sup> coding, and tabulation of data for the five million establishments represented in the 1972 economic censuses was a complicated task requiring extensive advance planning and careful coordination among the Census Bureau's organization subdivisions. Automatic data processing and other advanced techniques were used in all phases to a considerable extent.

**Facilities.**—In the mail collection phase, the questionnaires were returned by respondents to the Census office at Jeffersonville, Ind., where most noncomputer (that is, clerical) processing operations were performed. The Jeffersonville functions consisted mainly of preliminary screening of questionnaires, carrying on routine correspondence with respondents, keying data on a key-to-disk system, and transmitting the tape encoded data to Washington on a high-speed transmission system. The Washington staff handled computer operations and all operations in connection with the use of IRS and SSA records.

**Preliminary Screening.**—After they were checked in against control lists and assigned geographic codes, the questionnaires were reviewed clerically to see that they conformed to certain minimum requirements before further processing. In the case of multiunit companies, the sum of employment and payrolls reported on its establishment questionnaires was compared with the control totals reported on form NC-K1, "Company Summary Report." Questionnaires received from ostensibly single-unit firms were reviewed to ascertain whether they had become multiunits through merger or acquisition. All questionnaires were reviewed to see that the entries were legible and keyable and that entries appeared for a number of key items. For manufacturing establishments returns, the key items were payrolls and value of shipments. Questions arising in the screening operation were resolved by writing or telephoning the respondents. Complex problems involving multiunit companies were either handled by a special task force of experienced analysts in Jeffersonville or were referred to the Washington office.

**Computer Editing.**—All of the establishment records from the 1972 censuses of manufactures and mineral industries underwent computerized processes of screening and detailed testing of data. While many of these programs were newly devised in 1972 they were largely based on similar programs in use during previous censuses. Average values and tolerance limits for key

operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per man-hour, etc.) played a fundamental role in the editing process. However, more extensive testing and more sophisticated routines for adjusting data which failed the tests were incorporated into the 1972 programs. The need for computer editing may be judged by the fact that more than half of all 4-digit SIC industries had one or more data cells changed by more than 5 percent as a result of application of these programs.

In the 1972 census of manufactures, nearly 386,000 establishments were initially defined as being potentially in scope of manufacturing establishments. Approximately 55,000 were identified as having no activity in 1972 or actually out of scope of manufacturing. There were approximately 18,000 duplicate establishment records, which were removed. The ending file consisted of nearly 313,000 establishments engaged in manufacturing activities.

In sequence, the computer programs used included a Housekeeping and Screening Edit, a Coverage Control and Matching Edit, a Magnitude Edit, a General Statistics Edit, an Intercard-Intercolumn Edit, a Product and Materials Edit, Duplicate Removal Programs, and various programs of referral and of aggregate testing. These programs are described in outline form below. Also included within this sequence were programs of geographic coding and of industry coding, subindustry coding, and SIC recoding which are described elsewhere in this Introduction.

The *Housekeeping and Screening Edit* was designed to inspect each record for the presence of basic information such as identification numbers, geographic codes, and source codes (that is, ASM, census of manufactures, or census of minerals). This program also included some simple data adjustments, such as the replacement of a missing total by a corresponding sum of detail.

The *Coverage Control and Matching Edit* was a system of programs which checked the consistency of clerically assigned codes with information reported on the ownership status of the establishment. For ASM establishments, the program included matching with the 1971 ASM record file to identify corresponding prior-year records.

The *Magnitude Edit* was designed to test the size of two key items—payrolls and value of shipments. For ASM establishments, these items were compared with the corresponding entries for 1971 and were accepted if satisfactory. If not accepted, the ASM records were channeled through the standard edit which compared payrolls to a historical employment-size code. Payroll figures passing the test were then used, in conjunction with cost of materials, in testing the value of shipments.

When failures in the magnitude tests were encountered, a fixed sequence of attempts to adjust the data were performed,

<sup>18</sup>In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.



which included dividing a reported figure by 1,000 (a common error was the reporting of values in dollars rather than in thousands of dollars as requested), or replacing a total by a sum of detail where these differed.

More than 34,000 establishments were rejected from the combined output of the Housekeeping and Screening Edit, from the Coverage Control and Matching Edit, and from the Magnitude Edit. These rejects were clerically reviewed, corrected where necessary, and recycled back into the computer.

The *General Statistics Edit* tested key operating ratios and adjusted the record or flagged it for later attention if it failed the test. Fifty-two such ratios were assigned for use in testing census of manufactures records, and 41 ratios of change between 1971 and 1972 were used in testing the ASM reports. The tolerance limits and average values for these 93 ratios were based on the limits used for the corresponding tests in the 1967 census, with some correction and updating based on the 1971 ASM information.

In the presence of ratio failures, the computer program was designed to determine the component of the ratio which was most likely to have caused the failure. This was done by a process of inspecting other ratios containing each of the suspect components, and by computing an overall weighted-reliability index for each. The component with the lowest reliability index was judged to be incorrect. The computer then attempted to adjust the questionable figure by a process of "rounding" (multiplying or dividing by successive powers of 10), substitution of a total by a sum of detail, or by imputation based on one of the several ratios in which the suspect component was contained. After each such attempted adjustment, the new figure was accepted if it resulted in an improved reliability index.

In addition to the testing and correction of reported information, the General Statistics Edit was the vehicle for the imputation of data for the 120,000 establishments designated as administrative-record cases, as well as data for companies whose reports were not received at the time the data were tabulated. Imputation for all reasons, failure to report as well as administrative records, accounted overall for about 5 percent of the total value of shipments. Records were not rejected and removed from the computer tapes in the General Statistics Edit, but were flagged and printed out for review by an analyst whenever the computer made a large adjustment, found a large year-to-year change, or could not make an acceptable adjustment after test failure. Excluding administrative records, about 22,000 such cases were printed out for review and possible correction.

The *Inter-card-Inter-column Edit* was designed to test specific relationships among products, materials, and special inquiries. The record was flagged for inspection if the test failed; some 11,000 records were printed out for review from this edit.

The *SIC recoding program* recoded industry codes, product codes, and material codes, which were reported on the 1967 SIC system by means of reference tapes to the 1972 SIC system. Each establishment was assigned an old (1967) SIC industry code and a new (1972) SIC industry code based on the product mix reported in item 18 of the report forms. These industry codes were retained in the establishment record in order to tabulate and bridge the information. (See appendix B for a comparison of the old and new SIC's).

The *Product and Materials Edit* was performed after the data on products and materials had been extracted from the basic establishment records, assembled in product (or material) sequence, and recoded to the 1972 SIC code system. The edit was designed to inspect the reported quantities of production and of consumption after the corresponding values were tested and found acceptable. Unit values, in terms of dollar value per unit of quantity, were computed and ranked from highest to lowest. The most extreme values were removed, and the truncated data were used in the formulation of parameters (average deviation, central value, and upper and lower tolerance limits) which were printed out for review by analysts. This routine differs from those in other edits in that the parameters for editing were developed from the data at hand rather than from historic data or predetermined reasonableness limits.

The *Duplicate Removal Programs* were designed to identify and eliminate duplicate establishment records from the census. The sources of duplication were many; imputed records which were followed by late receipts of a report from the respondent were typical; multiunit companies having plants duplicated on their list of establishments; receiving or imputing full-year plant reports from the selling (predecessor) and acquiring (successor) companies; companies being imputed as single units which had reported as multiunits. A potential duplicate program was used to identify, for analysts' inspection, establishments which were in the same industry, same area, and approximately the same size. These programs resulted in the elimination of nearly 18,000 duplicate establishment records from the census file.

As in previous censuses, this preliminary round of computer editing and professional correction was followed by a more detailed review of establishment records. Among the devices used at this stage was an "outlier" program which printed out ASM establishment reports of dubious quality in terms of their internal consistency. The outlier program used some of the same ratios as the General Statistics Edit, but with parameters updated to reflect the characteristics of 1972, rather than earlier data. Records with one or more suspicious ratios were printed out for review. In addition, aggregates of records at the industry and the geographic cell level were inspected with ratio tolerance limits adjusted to reflect the number of establishments contributing to the cell.

## 12. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiunit companies described in section 8, "The Mailing Lists," and section 10, "Data Collection," were designed to secure complete lists of establishments, thereby amplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage. This procedure is discussed in section 11, "Data Processing."

Comparison of statistics tabulated from the census of manufactures with the Census Bureau's Current Industrial Reports series, or with data originating with other agencies was possible

in many instances, thus providing a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor Statistics to detailed commodity output figures published by the Internal Revenue Service, the Fish and Wildlife Service, and the Department of Agriculture. In the industry reports in Volume II, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Census Bureau's other procedures designed to improve the accuracy of the census data are discussed above in the sections on data collection and processing. Comments on the valuation of intracompany shipments by multiunit companies are included in section 15.

## III. COMMENTS ON STATISTICAL MEASURES AND TABLES

*(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in appendix A. In the following sections, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)*

### 13. EMPLOYMENT AND PAYROLLS IN ADMINISTRATIVE OFFICES AND AUXILIARY ESTABLISHMENTS

In the industry chapters of Volume II, the data on employment and payrolls refer to operating manufacturing establishments and are so described. In the summary tables and the area reports, the employment and payrolls of central administrative offices and auxiliary establishments are included as well. However, whereas the operating establishments were coded to a 4-digit manufacturing industry, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served. In most of the tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group, but statistics for them by 2-digit industry appear in each volume in the General Summary tables. The relative importance of administrative offices and auxiliaries has increased substantially in recent years, because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing,

repair services, and miscellaneous others. As indicated in table H, this tendency was quite marked between 1954 and 1963 and between 1967 and 1972.

TABLE H. Employment in Central Administrative Offices and Auxiliaries and in Operating Manufacturing Plants: 1972 and Earlier Census Years

Census year	Employees in operating manufacturing establishments		Employees in central administrative offices and auxiliaries		
	Thous-ands of em- ployees	Percent change from previous census year	Thous-ands of em- ployees	Percent change from previous census year	Percent of total employ-ment <sup>1</sup>
1972 . . . . .	19,029	+2.9	994	+19.8	5.2
1967 . . . . .	18,492	+14.0	830	+14.3	4.3
1963 . . . . .	16,235	+5.3	726	+20.6	4.3
1958 . . . . .	15,423	-1.4	602	<sup>2</sup> +32.9	3.8
1954 . . . . .	15,645	(NA)	453	(NA)	2.8

(NA) Not available.

<sup>1</sup>The total includes manufacturing establishments, central administrative offices, and auxiliaries.

<sup>2</sup>The apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of administrative offices and auxiliaries was more complete in the 1958 census.

Source: Census of manufactures.



## 14. MATERIALS

In addition to the total cost of materials which every establishment was requested to report, quantity and cost information was collected for approximately a thousand specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained on a more limited basis, generally only in those industries in which the materials were important inputs. Detailed consumption information was collected in the standard materials inquiry, in the product inquiries (for items which were produced and consumed in the same plant), or in a few instances in special inquiries. The resulting statistics are presented mainly in tables 6A and 7A of the industry chapters, Volume II.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

- (a) The importance of the material as measured by the total value of U.S. consumption of the material;
- (b) The percentage of total consumption accounted for by manufacturing establishments;
- (c) The availability of consumption information from manufacturers' records, and
- (d) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited-coverage basis were chosen not only because they constituted important inputs for particular industries but frequently because they provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7A in the industry chapters of Volume II, the following limitations should be noted:

- (a) Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in table 7A represent consumption in secondary products as well as primary products of the industry represented. The extent of secondary production is measured by the specialization and coverage ratios shown in table 5B of the industry chapters.
- (b) Attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and

supplies, not specified by kind." The amounts appearing on these lines represent imputed totals for establishments whose statistics were developed by use of administrative records, and totals for other establishments which failed to report their consumption in specific terms. Thus, for most industries, the specific categories are understated. A judgment on the statistical significance of the understatement for each industry may be made on the basis of the relationship of the value shown for the "not specified by kind" (code 000) line compared with the total of materials, components, parts, containers, and supplies for the industry.

(c) Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000. The use of this cutoff is not believed to have had a significant effect on the totals.

(d) A total of "not elsewhere classified" (n.e.c.) material code 970099 was collected on most forms and is published for each industry. This represents the total cost of materials for an industry for which no material items were prelisted on the form. Survey MA-131, 1972 Supplemental Survey of Materials Consumed, a sample survey of 141 industries, was conducted in 1972 to provide material consumption estimates for the cost of materials reported in material code 970099. Results of this survey are shown in chapter 5, Materials Consumed.

## 15. VALUE OF SHIPMENTS BY MULTIUNIT COMPANIES

**General.**—Except for a few industries as indicated in appendix A, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value, including not only the cost of production but also a reasonable proportion of company overhead and profits. Since there is no advertising or other selling cost involved, it would be expected that the value per unit of such transfers would be less than that for commercial sales. The plant receiving the transferred goods was instructed to include them in its cost of materials, valued as at the shipping point plus the cost of freight and other handling charges.

In the case of goods transferred to sales branches, or sold through separate sales offices, the implication of the "f.o.b. plant" instruction is that the value is at a somewhat lower level than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

In practice, there is reason to believe that these instructions were not followed by all companies. In a recordkeeping practices study of 54 multiunit companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. In the case of finished products transferred to separate selling organizations, half of the companies interviewed valued the products at their final or invoice price, which again would be somewhat higher than the "f.o.b. plant" transfer value requested. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tends to be overstated. For products characterized by a substantial amount of interplant shipments, separate quantity and value figures were requested on the census forms. Data on these shipments, the unit value of which is less accurate than the unit value for shipments outside the company, are presented separately in table 6A in the industry chapters of Volume II.

**Individual Products.**—In the 1972 census program, information was collected on the output of approximately 10,500 individual product items.<sup>20</sup> The term "product" as used in the census of manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. In some cases, it may be much more detailed, and in other cases, it is more aggregative. For example, pharmaceutical preparations were reported in terms of 160 products, while canned meats was a single product. Frequently, large aggregative values at the product level indicated that detailed production figures were available from other government sources or reliable private surveys.

Some 5,500 of the product items were listed separately on the 1972 census report forms. Data for the remaining 5,000 products were obtained in the monthly, quarterly, or annual commodity surveys comprising the Current Industrial Reports series of the Census Bureau. Totals for the year 1972 for these items as derived from the commodity surveys are shown in the "product shipped" table (table 6A) in the industry chapters of Volume II together with the tieline total value collected in the census for reconciliation.

Typically, both quantity and value of shipments information was collected. However, if there was no meaningful physical quantity measure that could be reported by manufacturers, only value of shipments was collected. For products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total quantities produced and often the quantities con-

sumed within the plant were collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

**Classes of Products.**—For the purpose of summarizing the product information, the separate products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. The code structure used is a 7-digit number for the individual product, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry (see section 4 for application of coding structure to the assignment of SIC codes for establishments).

The 10,500 product items in the 1972 census (including products from the Current Industrial Reports program) were grouped into approximately 1,293 separate classes. Products were grouped into product classes to bring out significant differences in the broad types of products within a 4-digit industry. General similarity of the kind or purpose of the products or of the manufacturing processes, type of markets, or of materials used, were the basis for product combinations. The economic significance of the class was also taken into account; residual products of an industry were grouped when the products were not sufficiently significant in dollar value to warrant separate classes.

As a result of the increased number of respondents included in the product-class shipments totals, these categories lend themselves to many more cross tabulations than do the 7-digit products, without disclosing information about the operations of individual companies. In the industry chapters of Volume II, table 6B provides information on the value of shipments of product classes by State; and table 5C, by industry of the establishment producing them. The latter table is the best vehicle for showing the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments. In table 5A the product class is used to provide finer industry-type general statistics by classifying establishments within an industry according to the degree to which they specialize in producing a specific class of products.

The class-of-product concept was incorporated by the Census Bureau into its own program with the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes formed the basis of collecting product information in the annual survey of manufactures when that survey was initiated in 1949. The classes have been revised over the succeeding years to improve the balance and significance of product combinations within each industry and to keep abreast of the growth and decline of products.

<sup>20</sup> See 1972 Census of Manufactures, MC72-1.2 "Numerical List of Manufactured Products," and MC72-1.1 "Alphabetic List of Manufactured Products," (1967 SIC basis).



# INTRODUCTION—Continued

**Effect of Use of Administrative Records on Product Data.**—As noted elsewhere in this Introduction, 1972 census statistics for about 120,000 small manufacturers were developed by use of IRS and SSA records. Since the SSA records were coded only to the 4-digit SIC level, it was not considered feasible to estimate the product output of these small companies in terms of specific 5-digit product classes or 7-digit products. The total value of output was therefore coded to the 4-digit level and published separately in table 6A of the industry chapters of Volume II. In table I, page 18, these data have been summarized together with other undistributed 4-digit totals reported

by the larger companies. It will be seen from table I that the contribution of the small companies (administrative records) to product totals was of little importance except in lumber, furniture, and printing and publishing (groups 24, 25 and 27). The large companies (mailed establishments) which for various reasons reported only in terms of group totals were of somewhat more importance, accounting overall for about 3 percent of the total value of product shipments.

Nominally, the shipments of "small companies" as shown in table I represent the output of all establishments with less than 10 employees. Actually, only 35 percent of the value of

TABLE I. Value of Products Not Specified by Kind: 1972 and 1967

Product group code <sup>1</sup>	Total value of product shipments (mil. dol.)		Products not specified by kind											
			Total (mil. dol.)		Large companies (mil. dol.)		Small companies <sup>2</sup> (mil. dol.)		Percent attributed to—					
									Total		Large companies		Small companies	
	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967	1972	1967
Total	739,426.8	539,470.1	35,968.3	23,387.2	25,132.6	17,884.6	10,835.7	5,430.6	4.9	4.3	3.4	3.3	1.5	1.0
20 ....	106,779.6	78,650.9	5,700.5	4,088.2	4,302.6	3,326.7	1,397.9	761.5	5.3	5.2	4.0	4.2	1.3	1.0
21 ....	5,540.2	4,589.7	40.8	46.4	32.3	44.2	8.5	2.2	.7	1.0	.6	1.0	.1	.1
22 ....	30,884.3	20,141.0	833.3	619.1	672.3	550.1	161.0	69.1	2.7	3.1	2.2	2.7	.5	.3
23 ....	29,247.5	19,748.9	2,435.6	1,992.5	1,728.9	1,686.0	706.7	306.5	8.3	10.1	5.9	8.5	2.4	1.6
24 ....	22,919.6	10,585.7	2,999.3	1,614.7	1,405.0	774.7	1,594.3	840.0	13.1	15.2	6.1	7.3	7.0	7.9
25 ....	10,843.2	8,110.2	1,155.5	702.6	848.5	485.7	307.0	216.9	10.6	8.7	7.8	6.0	2.8	2.7
26 ....	27,227.4	20,049.3	791.2	575.3	677.6	512.4	113.6	62.9	2.9	2.9	2.5	2.6	.4	.3
27 ....	29,347.5	20,878.9	3,433.1	1,805.2	1,891.6	923.1	1,541.5	882.1	11.7	8.6	6.4	4.4	5.3	4.2
28 ....	53,038.9	40,013.1	1,567.3	1,030.3	1,140.7	851.9	426.6	178.4	3.0	2.6	2.2	2.1	.8	.5
29 ....	27,349.6	20,992.8	330.0	159.2	255.6	130.0	74.4	29.2	1.2	8.8	.9	.6	.3	.1
30 ....	19,963.5	12,236.8	1,360.3	512.5	1,048.3	414.6	312.0	97.9	6.8	4.2	5.2	3.4	1.6	.8
31 ....	5,472.0	4,849.8	335.0	238.8	242.4	180.8	92.6	58.0	6.1	4.9	4.4	3.7	1.7	1.2
32 ....	21,139.7	13,596.9	1,042.1	585.6	678.7	404.3	363.4	181.3	4.9	4.3	3.2	3.0	1.7	1.3
33 ....	71,058.4	55,926.8	1,225.0	670.6	1,069.8	607.9	155.2	62.7	1.7	1.2	1.5	1.1	.2	.1
34 ....	51,167.1	32,928.9	3,677.9	2,720.7	2,847.1	2,342.1	830.8	378.6	7.2	8.3	5.6	7.1	1.6	1.2
35 ....	60,212.7	46,076.8	4,085.9	2,874.8	2,699.2	2,223.4	1,386.7	651.4	6.8	6.2	4.5	4.8	2.3	1.4
36 ....	49,958.8	39,429.2	1,464.2	937.8	1,148.2	793.5	316.0	144.3	2.9	2.4	2.3	2.0	.6	.4
37 ....	91,522.0	64,976.3	1,413.5	854.7	1,126.8	718.3	286.7	136.4	1.5	1.3	1.2	1.1	.3	.2
38 ....	14,484.8	8,759.8	556.1	340.2	413.8	263.3	142.3	76.9	3.9	3.9	2.9	3.0	1.0	.9
39, 19 <sup>3</sup>	11,270.0	16,928.6	1,521.7	945.9	903.2	651.6	618.5	294.3	13.5	5.6	8.0	3.8	5.5	1.7

Note: These values represent product shipments, irrespective of the industry in which the products were made, and therefore differ from the industry group totals shown in the General Summary tables.

<sup>1</sup> The product shipment data for 1972 are tabulated on the 1972 (new) SIC basis; therefore data for 1972 and 1967 are not completely comparable for most of the major 2-digit groups due to the reclassification of products in the 1972 SIC revision across 2-digit groups. See appendix B for the products of 4-digit industries that were reclassified across 2-digit major groups.

<sup>2</sup> Estimates derived from administrative records. See text for further discussion.

<sup>3</sup> In the 1972 SIC revision, the products for Major Group 19 were reclassified to Major Groups 34, 36, 37, and 38.

shipments of establishments with less than 10 employees was obtained from administrative records. This was due to several factors, the most important of which were—

(a) Many of the establishments with less than 10 employees were owned by multiunit companies and were covered in the mail canvass.

(b) Questionnaires were mailed to about 4,000 of the companies identified as having less than 10 employees. These were the small companies included in the ASM sample; the rest were included in the mail canvass to improve the estimates of general statistics, products, and materials.

(c) Some companies identified originally as having 10 employees or more turned out to have less than 10 employees in 1972.

Another factor tended to reduce the value of products not specified by kind attributed to small companies, thus affecting table 1 particularly. This was the fact that some 4-digit industries were represented by only one product category (an example is industry 3273, Ready-Mixed Concrete). Administrative-record estimates for products such as this were treated as specific information and not tabulated under the "not specified by kind" heading.

These factors taken together explain why the value of products "not specified by kind" attributed to small companies in table 1 is only 1.5 percent of the total, while the 159,000 establishments with less than 10 employees account for 2.5 percent of the total value added by manufacture in table E.

The value of product shipments accounted for by the small companies increased from 1.0 percent in the 1967 census to 1.5 percent in 1972. This is because considerably more establishments, initially identified as having less than 10 employees, actually had more than 10 employees in 1972.

The data for many of the specific 7-digit products shown in table 6A are understated by a proportion of the "not specified by kind" codes in each industry.

## 16. DUPLICATION IN COST OF MATERIALS AND VALUE OF PRODUCTS

The aggregates of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as SIC 3312, Blast Furnaces and Steel Mills, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2-digit and 3-digit industry level because these group totals often include industries which represent successive stages in

the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC Major Group 20 and the addition of pulp-mills to papermills in Group 26. Economists have estimated that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Because the amounts of duplication contained in the cost of materials and value of products figures cannot be measured with any degree of precision, caution is urged with their use when they are provided at the 2- and 3-digit industry group level.

Even where no significant amount of duplication is involved, value of shipments figures are of limited use as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry. To a large extent, value added by manufacture does not have these limitations and is therefore a better measure for comparison.

## 17. VALUE ADDED BY MANUFACTURE

**General.**—Value added by manufacture is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and miscellaneous receipts) from the value of shipments (including resales) and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.<sup>21</sup>

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It does not exclude purchased business services, as does the national income concept described below.<sup>22</sup> Nevertheless, it is considered to be the best value measure now available for comparing the relative economic importance of manufacturing among industries and geographic areas.

<sup>21</sup> For a few industries (for example, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

<sup>22</sup> Collection of data on the cost of purchased business services at the plant level presents many problems. Advertising by multiunit companies, for example, is frequently charged at the company level and the cost either not allocated to plants or if allocated are only included as part of a broader company overhead category. National income data, on the other hand, are compiled in part from company rather than plant data, such as the IRS Statistics of Income in which advertising is presented as a separate cost item based on company reports.



# INTRODUCTION—Continued

National income originating in the manufacturing sector, as developed in the national accounts maintained by the Bureau of Economic Analysis (BEA), is somewhat similar to value added in concept, but there are important differences. National income is the aggregate earnings of labor and capital which arise in the current production of goods and services in the manufacturing sector. Thus it measures the total factor costs incurred and is a more "net" conception of value added than that which it has been found feasible to compile in the economic censuses on an establishment basis. National income

excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc.

In part, the national income estimates are prepared from company rather than establishment data. This method results

TABLE J. Comparison of National Income Originating and Value Added by Major Industry Group: 1972 and 1967

SIC code	Industry group description	National income originating <sup>1</sup> (bil. dol.)		Value added by manufacturing (bil. dol.)		Column 1 divided by column 2	
		(1)		(2)			
		1972	1967	1972	1967	1972	1967
	Manufacturing . . . . .	252.6	195.2	354.0	262.0	0.71	0.75
	Nondurable goods . . . . .	99.9	75.5	149.5	109.5	.67	.69
20	Food and kindred products . . . . .	20.8	16.3	35.6	26.6	.58	.61
21	Tobacco manufactures . . . . .	1.8	1.3	2.6	2.0	.69	.65
22	Textile mill products . . . . .	8.2	6.2	11.7	8.2	.70	.76
23	Apparel and other fabricated textile products . . . . .	9.6	7.5	13.5	10.1	.71	.74
26	Paper and allied products . . . . .	9.3	6.7	13.1	9.8	.71	.68
27	Printing, publishing, and allied industries . . . . .	13.6	9.9	20.2	14.4	.67	.69
28	Chemicals and allied products . . . . .	18.2	14.1	32.4	23.6	.56	.60
29	Petroleum refining and related industries . . . . .	8.6	6.5	5.8	5.4	1.48	1.20
30	Rubber and miscellaneous plastics products . . . . .	7.5	4.7	11.7	6.8	.64	.69
31	Leather and leather products . . . . .	2.2	2.2	2.9	2.6	.76	.85
	Durable goods . . . . .	152.7	119.7	204.6	152.7	.75	.78
24	Lumber and wood products, except furniture . . . . .	7.1	4.2	10.3	5.0	.69	.84
25	Furniture and fixtures . . . . .	4.5	3.2	6.1	4.2	.74	.76
32	Stone, clay, and glass products . . . . .	8.5	5.8	12.6	8.4	.67	.69
33	Primary metal industries . . . . .	17.4	15.3	23.3	20.0	.75	.77
34	Fabricated metal products . . . . .	17.5	13.4	26.9	18.0	.65	.74
35	Machinery, except electrical . . . . .	26.6	21.8	37.6	27.8	.71	.78
36	Electrical machinery . . . . .	22.5	18.6	30.6	24.5	.74	.76
19 <sup>2</sup>	Transportation equipment and ordnance, except motor vehicles . . . . .	15.1	15.3	39.8	33.8	.95	.86
37	Motor vehicles and motor vehicle equipment . . . . .	22.6	13.6				
38	Instruments . . . . .	6.5	5.2	10.6	6.4	.61	.81
39	Miscellaneous manufacturing industries . . . . .	4.4	3.3	6.8	4.6	.65	.72

<sup>1</sup>Source: Survey of Current Business, July 1970; July 1973, p. 22.

<sup>2</sup>This Major Group was recoded to Major Groups 34, 36, 37 and 38 in the 1972 SIC revision.

in the inclusion of some part of the net value added by non-manufacturing establishments of companies classified as being primarily manufacturing and, conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases national income. In the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one group in which national income exceeds value added, as shown in table J.

**Historical Comparison.**—Whatever changes have taken place in the relative importance of the costs included in value added but excluded from national income have been gradual. As shown in table K, the ratio between the two figures has been fairly constant over the past decade.

TABLE K. National Income Originating in Manufacturing and Value Added by Manufacture: 1972 and Earlier Years

Year	National income originating in manufacturing  (bil. dol.) (1)	Value added by manufacture  (bil. dol.) (2)	Column 1 divided by column 2
1972 .....	252.6	354.0	0.71
1971 .....	226.4	314.1	.72
1970 .....	217.5	300.2	.72
1969 .....	222.3	304.4	.73
1968 .....	212.7	285.1	.75
1967 .....	195.2	262.0	.75
1966 .....	191.5	250.9	.76
1965 .....	172.6	226.9	.76
1964 .....	155.6	206.2	.75
1963 .....	143.8	192.1	.75
1962 .....	137.0	179.3	.76
1961 .....	125.1	164.2	.76
1960 .....	125.8	164.0	.77
1959 .....	124.0	161.3	.77
1958 .....	107.7	141.5	.76
1957 .....	116.3	147.8	.79
1956 .....	113.1	144.9	.78
1954 .....	94.6	117.0	.81
1947 .....	59.5	<sup>1</sup> 74.3	.80
1939 .....	18.1	<sup>1</sup> 24.5	.74

<sup>1</sup> Unadjusted.

Sources: National income, survey of current business; value added, census of manufactures and annual survey of manufactures.

**Reconciliation with National Income Components.**—Figures are not available to permit a reconciliation of the estimates for value added in manufacturing and the national income originating in manufacturing for the current period. However, in 1957, the Census Bureau conducted a special survey, MC-D11, "Selected Costs and Assets of Manufacturing Establishments," which collected information on some of the costs included in value added for services purchased from other sectors or excluded from the national income estimates. These specific costs which accounted for about \$15 billion of the \$148 billion of value added in 1957 were maintenance and repairs, \$4.5 billion; insurance, \$.7 billion; property taxes, \$1.5 billion; rental payments, \$1.4 billion; and depreciation, \$7.3 billion. The residual value added, \$132 billion, was approximately \$16 billion in excess of national income of \$116 billion.

Table L presents an approximate reconciliation of national income and value added figures for manufacturing in 1957. The national income estimates for payrolls and other factor income in that year are based on the unrevised national income figures which are somewhat lower than the revised estimate appearing in table K. It should be noted that the labor costs included in national income and value added are reasonably close despite the fact that they are computed on a slightly different basis. If the proprietary and profit incomes of the company-based national income estimates are allocated to the establishments included in the census of manufactures, value added exceeds national income by \$35 billion of which \$15 billion is attributable to costs reported on survey MC-D11. Somewhat more than half of the \$35 billion excess represents the inclusion in value added by manufacture of purchased business services arising in other economic sectors; the remainder reflects conceptual differences arising from the inclusion, in value added, of indirect business taxes and depreciation which are excluded by definition from national income.

## 18. CAPITAL EXPENDITURES

Under this heading, manufacturers were instructed to report expenditures of the type chargeable to fixed assets accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Census Bureau estimates of capital expenditures tend to be lower than those published in the joint Bureau of Economic Analysis-Securities and Exchange Commission survey. In addition to normal sampling variation, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments,



TABLE L. 1957 Comparative Statistics on Value Added and National Income in Manufacturing

(Billions of dollars)

Item	Value added	National income <sup>1</sup>
Total .....	147.8	112.5
Payrolls .....	89.4	87.9
Payrolls of operating manufacturing establishments .....	76.4	<sup>2</sup> 80.6
Supplements to wages in operating manufacturing establishments .....	6.0	
Payrolls of central administrative offices and auxiliaries, sales branches and offices of manufacturing companies .....	47.0	
Other factor incomes (Corporate profits, proprietary income) .....	24.6	<sup>3</sup> 7.2
Costs of manufacturing establishments reported on MC-D11 .....	15.4	<sup>4</sup> (X)
Not part of national income:		
Depreciation .....	7.3	(X)
Property taxes .....	1.5	(X)
Probably included in other sectors:		
Maintenance and repairs .....	4.5	(X)
Rental payments .....	1.4	(X)
Insurance .....	.7	(X)
Other costs (company overhead other than payrolls included above; e.g., company-level depreciation, business taxes, and services purchased, and services purchased directly by plants, advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc. . .	18.4	(X)

(X) Not applicable.

<sup>1</sup> Prior to 1958 revisions of national income. The revised total was \$116.3 billion.<sup>2</sup> Payrolls.<sup>3</sup> Supplements to wages.<sup>4</sup> Estimate based on figures reported in the 1958 economic censuses.

whereas the BEA-SEC series covers all establishments of manufacturing companies—nonmanufacturing as well as manufacturing. This factor is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. On the other hand, manufacturing establishments of companies engaged primarily in nonmanufacturing activities are excluded from

the BEA-SEC series but included in census figures. The BEA-SEC and census data for recent years are shown in tables M and N.

## 19. PLANT SPECIALIZATION

As discussed in section 4 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed: (1) A 4-digit primary product-specialization ratio, which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products; and (2) a 5-digit primary product-class specialization ratio, which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these

TABLE M. Expenditures for New Plant and Equipment—BEA-SEC Series and Census: 1972 and Earlier Years

Year	BEA-SEC series <sup>1</sup> (bil. dol.) (1)	Census (census of manufactures and ASM) (bil. dol.) (2)	Column 2 divided by column 1
1972 .....	31.4	24.1	0.77
1971 .....	30.0	20.9	.70
1970 .....	32.0	22.2	.69
1969 .....	31.7	22.3	.70
1968 .....	28.4	20.6	.72
1967 .....	26.7	21.5	.81
1966 .....	27.0	20.2	.75
1965 .....	22.5	16.6	.74
1964 .....	18.6	13.3	.72
1963 .....	15.7	11.4	.73
1962 .....	14.7	10.0	.68
1961 .....	13.7	9.8	.72
1960 .....	14.5	10.0	.69
1959 .....	12.1	9.3	.77
1958 .....	11.4	9.6	.84
1954 .....	11.0	8.2	.74
1947 .....	8.7	<sup>2</sup> 6.0	.69

<sup>1</sup> Source: 1974 Business Statistics, U.S. Department of Commerce, Bureau of Economic Analysis.<sup>2</sup> Excludes data for establishments under construction but not yet in operation.

TABLE N. Expenditures for New Plant and Equipment—BEA—SEC Series and Census of Manufactures, by Industry Group: 1972

Industry groups	BEA-SEC series <sup>1</sup>  (bil. dol.) (1)	Census of manu- factures,  (bil. dol.) (2)	Column 2 divided by column 1
All manufacturing, total . . . . .	31.4	24.1	0.77
Durable goods, total . . . . .	15.7	12.7	.81
Primary metals . . . . .	2.8	2.1	.75
Electric machinery . . . . .	2.4	1.4	.58
Machinery, except electric . . . .	2.9	1.9	.66
Transportation equipment . . . .	2.5	2.7	1.08
Stone, clay, and glass . . . . .	1.2	1.2	1.00
Other durables . . . . .	3.9	3.4	.87
Nondurable goods, total . . . . .	15.7	11.4	.73
Food and beverages . . . . .	2.6	2.4	.92
Textiles . . . . .	.7	1.1	1.57
Paper . . . . .	1.4	1.3	.93
Chemicals . . . . .	3.5	2.7	.77
Petroleum . . . . .	5.3	1.2	.23
Rubber . . . . .	1.1	1.1	1.00
Other nondurables . . . . .	1.1	1.6	1.45

<sup>1</sup>Source: 1974 Business Statistics, U.S. Department of Commerce, Bureau of Economic Analysis.

calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	\$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32721 Concrete pipe products	100
32722 Precast concrete products	785
32730 Ready-mixed concrete	100

This plant would be coded into SIC industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent (\$885÷985); it would be subclassified into the 5-digit class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent (\$785÷985).

In the 1972 census, selected general statistics (number of establishments, employment, payrolls, value added, cost of materials, value of shipments, and capital expenditures) were tabulated to primary product-class levels by assigning the plant totals to the principal 5-digit codes. These data are presented in table 5A of the industry chapters, Volume II. For most product classes, table 5A also provides general statistics for establishments specializing in the class to the extent of 75 percent or more.

Table 5A permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or a subgroup (5-digit). For example, where the ratios among various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, the ratios for the industry as a whole would be significantly affected by changes in its product mix.

## 20. OPERATING RATIOS

Since all of the data collected in the census on establishment reports are interrelated, comparisons of the various measures of activity are of considerable interest. Beginning with the 1963 census, several ratios have been routinely computed and presented in the industry chapters of Volume II. For 1972 and earlier years, the following nine ratios were published for each 4-digit industry:

Payroll per employee
Production workers as percent of total employment
Annual man-hours of production workers
Average hourly earnings of production workers
Cost of materials per dollar of shipments
Cost of materials and payrolls per dollar of shipments
Value added per employee
Payrolls as percent of value added
Value added per man-hour of production worker

## 21. SUBJECT AND SPECIAL REPORTS SHOWN IN VOLUME I, SUMMARY AND SUBJECT STATISTICS

Volume I includes the seven subject reports and the six special reports presenting statistics which are not published



elsewhere. The following chapters were originally published in the subject series:

**Chapter 1. General Summary.**—This chapter, which appears in other volumes as well as Volume I, provides summary tabulations of data presented in greater detail in other census tables.

**Chapter 2. Employment and Labor Costs in Operating Manufacturing Establishments.**—This chapter presents the compilation of employment and labor costs for the United States as a whole and for each industry group and 4-digit industry. A more detailed description of the report and explanation of the terms employed is given in the introduction to the chapter.

**Chapter 3. Manufacturers' Inventories.**—These tables summarize the inventory data published in table 3 of the industry chapters of Volume II. A description of the statistics is given in appendix A.

**Chapter 4. Expenditures for Plant and Equipment.**—These tables summarize the expenditures data published in table 3 of the industry chapters of Volume II. A description of the data is given in appendix A and in section 18, "Capital Expenditures."

**Chapter 5. Materials Consumed.**—This chapter consists of a compilation of detailed statistics on consumption of materials, fuels, and electricity. These figures also appear in Volume II, Industry Statistics, as tables 7A and 7B for each industry.

**Chapter 6. Gross Book Value of Depreciable Assets and Rental Payments.**—This chapter presents the compilation of the gross book value of total assets and separate data for structure and machinery by industry group and industry. Rental payments for structures and machinery are also presented by industry group and industry. A more detailed description of the report and explanation of the terms employed is given in the introduction to the chapter.

**Chapter 7. Selected Metalworking Operations.**—This chapter presents the results of an inquiry concerning employment in metalworking plants such as foundry, forge shop, die casting department, and heat treating. The number of establishments in which these facilities are operated is presented, as well as the number of production workers engaged.

The following chapters were originally published in the special report series:

**Chapter 8. Manufacturing Activity in Government Establishments.**—This chapter presents data on manufacturing activities in selected types of government establishments in the United States. The statistics are not included in other census of manufactures tables, which cover only privately operated establishments. A more detailed description of the report is given in the introduction to the chapter.

**Chapter 9. Concentration Ratios.**—This chapter presents concentration ratios and other information on the share of industrial activity accounted for by the largest companies, both for the United States as a whole and for each of the 450 manufacturing industries. A more detailed description of the report and explanations of the terms employed is given in the introduction to the chapter.

**Chapter 10. Type of Organization.**—This chapter presents data for manufacturing establishments classified as to the legal form of ownership (corporate, individual proprietor, or partnership) and the establishment owner as a multiunit or single-unit company.

**Chapter 11. Water Use in Manufacturing.**—This chapter presents the results of a survey of the 1973 consumption of water in establishments consuming 20 million gallons or more annually. A more detailed description of the report and definitions of the terms employed, is given in the introduction to the chapter.

**Chapter 12. Textile Machinery in Place.**—This chapter presents the results of a 1973 survey on the number, by kind, of the various textile machines. Geographic breakdowns of the major textile operations are presented. The data are also broken out by industry for the various textile machines. A description of the statistics is given in the chapter.

**Chapter 13. Fuels and Electric Energy Consumed.**—This chapter consists of a compilation of detailed statistics on the consumption of fuels and electric energy from the 1971 Annual Survey of Manufactures. Data are presented on the quantity and costs of fuels and electric energy consumed for major groups and industries. A more detailed explanation of the estimates derived and terms employed are given in the introduction and the explanatory text for the chapter.

## 22. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing information of individual companies, geographic region and division totals are given precedence over individual States; States are given precedence over standard metropolitan statistical areas; standard metropolitan statistical areas over counties; and counties over cities. In tables showing industry detail, major industry group (2-digit) totals take precedence over industry group (3-digit) totals which, in turn, take precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings take precedence over 5-digit product classes and the latter over individual 7-digit products.

Such order of precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least significant) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

## 23. ABBREVIATIONS

The following abbreviations and symbols occur frequently in text, tables, and footnotes:

—	Zero
X	Not applicable
NA	Not available
D	Withheld to avoid disclosing figures for individual companies
n.e.c.	Not elsewhere classified
n.s.k.	Not specified by kind
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kWh	Kilowatt-hours
SIC	Standard Industrial Classification
IRS	Internal Revenue Service
SSA	Social Security Administration
ASM	Annual Survey of Manufactures
CIR	Current Industrial Reports
BEA	Bureau of Economic Analysis
SEC	Securities and Exchange Commission

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

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*Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.*

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## Industry Descriptions

*(Following is a compilation of the Industrial Security Classification (SIC) major groups and industries covered in the three parts of this volume of industry statistics.)*

### PART 1

#### Major Group 20—FOOD AND KINDRED PRODUCTS

##### 20A Meat Products

- 2011 Meatpacking plants
- 2013 Sausages and other prepared meats
- 2016 Poultry dressing plants
- 2017 Poultry and egg processing

##### 20B Dairy Products

- 2021 Creamery butter
- 2022 Cheese, natural and processed
- 2023 Condensed and evaporated milk
- 2024 Ice cream and frozen desserts
- 2026 Fluid milk

##### 20C Preserved Fruits and Vegetables

- 2032 Canned specialties
- 2033 Canned fruits and vegetables
- 2034 Dehydrated fruits, vegetables, soups
- 2035 Pickles, sauces, and salad dressings
- 2037 Frozen fruits and vegetables
- 2038 Frozen specialties

##### 20D Grain Mill Products

- 2041 Flour and other grain mill products
- 2043 Cereal breakfast foods
- 2044 Rice milling
- 2045 Blended and prepared flour
- 2046 Wet corn milling
- 2047 Dog, cat, and other pet food
- 2048 Prepared feeds, n.e.c.

##### 20E Bakery Products

- 2051 Bread, cake, and related products
- 2052 Cookies and crackers

##### 20F Sugar and Confectionery Products

- 2061 Raw cane sugar
- 2062 Cane sugar refining
- 2063 Beet sugar
- 2065 Confectionery products
- 2066 Chocolate and cocoa products
- 2067 Chewing gum

##### 20G Fats and Oils

- 2074 Cottonseed oil mills
- 2075 Soybean oil mills
- 2076 Vegetable oil mills, n.e.c.
- 2077 Animal and marine fats and oils
- 2079 Shortening and cooking oils

##### 20H Beverages

- 2082 Malt beverages
- 2083 Malt
- 2084 Wines, brandy, and brandy spirits
- 2085 Distilled liquor, except brandy
- 2086 Bottled and canned soft drinks
- 2087 Flavoring extracts and sirups, n.e.c.

##### 20I Miscellaneous Foods and Kindred Products

- 2091 Canned and cured seafoods
- 2092 Fresh or frozen packaged fish
- 2095 Roasted coffee
- 2097 Manufactured ice
- 2098 Macaroni and spaghetti
- 2099 Food preparations, n.e.c.

#### Major Group 21—TOBACCO MANUFACTURES

##### 21A Tobacco Products

- 2111 Cigarettes
- 2121 Cigars
- 2131 Chewing and smoking tobacco
- 2141 Tobacco stemming and redrying

#### Major Group 22—TEXTILE MILL PRODUCTS

##### 22A Weaving Mills

- 2211 Weaving mills, cotton
- 2221 Weaving mills, manmade fiber and silk
- 2231 Weaving and finishing mills, wool
- 2241 Narrow fabric mills

##### 22B Knitting Mills

- 2251 Women's hosiery, except socks
- 2252 Hosiery, n.e.c.
- 2253 Knit outerwear mills
- 2254 Knit underwear mills
- 2257 Circular knit fabric mills
- 2258 Warp knit fabric mills
- 2259 Knitting mills, n.e.c.

##### 22C Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods

- 2261 Finishing plants, cotton
- 2262 Finishing plants, manmade fiber and silk
- 2269 Finishing plants, n.e.c.

##### 22D Floor Covering Mills

- 2271 Woven carpets and rugs
- 2272 Tufted carpets and rugs
- 2279 Carpets and rugs, n.e.c.



## INDUSTRY DESCRIPTIONS—Continued

### 22E Yarn and Thread Mills

- 2281 Yarn mills, except wool
- 2282 Throwing and winding mills
- 2283 Wool yarn mills
- 2284 Thread mills

### 22F Miscellaneous Textile Goods

- 2291 Felt goods, except woven felts and hats
- 2292 Lace goods
- 2293 Paddings and upholstery filling
- 2294 Processed textile waste
- 2295 Coated fabrics, not rubberized
- 2296 Tire cord and fabric
- 2297 Nonwoven fabrics
- 2298 Cordage and twine
- 2299 Textile goods, n.e.c.

## Major Group 23—APPAREL AND OTHER TEXTILE PRODUCTS

### 23A Men's and Boys' Apparel

- 2311 Men's and boys' suits and coats
- 2321 Men's and boys' shirts and nightwear
- 2322 Men's and boys' underwear
- 2323 Men's and boys' neckwear
- 2327 Men's and boys' separate trousers
- 2328 Men's and boys' work clothing
- 2329 Men's and boys' clothing, n.e.c.

### 23B Women's and Misses' Outerwear

- 2331 Women's and misses' blouses and waists
- 2335 Women's and misses' dresses
- 2337 Women's and misses' suits and coats
- 2339 Women's and misses' outerwear, n.e.c.

### 23C Women's and Children's Underwear, Headwear, Children's Outerwear

- 2341 Women's and children's underwear
- 2342 Brassieres and allied garments
- 2351 Millinery
- 2352 Hats and caps, except millinery
- 2361 Children's dresses and blouses
- 2363 Children's coats and suits
- 2369 Children's outerwear, n.e.c.

### 23D Miscellaneous Apparel and Accessories

- 2371 Fur goods
- 2381 Fabric dress and work gloves
- 2384 Robes and dressing gowns
- 2385 Waterproof outer garments
- 2386 Leather and sheep lined clothing
- 2387 Apparel belts
- 2389 Apparel and accessories, n.e.c.

### 23E Miscellaneous Fabricated Textile Products

- 2391 Curtains and draperies
- 2392 Housefurnishings, n.e.c.
- 2393 Textile bags
- 2394 Canvas and related products
- 2395 Pleating and stitching
- 2396 Automotive and apparel trimmings
- 2397 Schiffli machine embroideries
- 2399 Fabricated textile products, n.e.c.

## Major Group 24—LUMBER AND WOOD PRODUCTS

### 24A Logging Camps, Sawmills, and Planing Mills

- 2411 Logging camps and logging contractors
- 2421 Sawmills and planing mills, general
- 2426 Hardwood dimension and flooring
- 2429 Special product sawmills, n.e.c.

### 24B Millwork, Plywood, and Structural Wood Members, N.E.C.

- 2431 Millwork
- 2434 Wood kitchen cabinets
- 2435 Hardwood veneer and plywood
- 2436 Softwood veneer and plywood
- 2439 Structural wood members, n.e.c.

### 24C Wooden Containers and Miscellaneous Wood Products

- 2441 Nailed wood boxes and shooks
- 2448 Wood pallets and skids
- 2449 Wood containers, n.e.c.
- 2491 Wood preserving
- 2492 Particleboard
- 2499 Wood products, n.e.c.

### 24D Wood Buildings and Mobile Homes

- 2451 Mobile homes
- 2452 Prefabricated wood buildings

## PART 2

## Major Group 25—FURNITURE AND FIXTURES

### 25A Household Furniture

- 2511 Wood household furniture
- 2512 Upholstered household furniture
- 2514 Metal household furniture
- 2515 Mattresses and bedsprings
- 2517 Wood TV and radio cabinets
- 2519 Household furniture, n.e.c.

# INDUSTRY DESCRIPTIONS—Continued

## 25B Office, Public Building, and Miscellaneous Furniture; Office and Store Fixtures

- 2521 Wood office furniture
- 2522 Metal office furniture
- 2531 Public building and related furniture
- 2541 Wood partitions and fixtures
- 2542 Metal partitions and fixtures
- 2591 Drapery hardware and blinds and shades
- 2599 Furniture and fixtures, n.e.c.

## 27C Greeting Cards; Bookbinding; Printing Trade Services

- 2771 Greeting card publishing
- 2782 Blankbooks and looseleaf binders
- 2789 Bookbinding and related work
- 2791 Typesetting
- 2793 Photoengraving
- 2794 Electrotyping and stereotyping
- 2795 Lithographic platemaking services

## Major Group 26—PAPER AND ALLIED PRODUCTS

### 26A Pulp, Paper, and Board Mills

- 2611 Pulp mills
- 2621 Paper mills, except building paper
- 2631 Paperboard mills
- 2661 Building paper and board mills

### 26B Converted Paper and Paperboard Products, Except Containers and Boxes

- 2641 Paper coating and glazing
- 2642 Envelopes
- 2643 Bags, except textile bags
- 2645 Die-cut paper and board
- 2646 Pressed and molded pulp goods
- 2647 Sanitary paper products
- 2648 Stationery products
- 2649 Converted paper products, n.e.c.

### 26C Paperboard Containers and Boxes

- 2651 Folding paperboard boxes
- 2652 Setup paperboard boxes
- 2653 Corrugated and solid fiber boxes
- 2654 Sanitary food containers
- 2655 Fiber cans, drums, and similar products

## Major Group 26—PRINTING AND PUBLISHING

### 27A Newspapers, Periodicals, Books, and Miscellaneous Publishing

- 2711 Newspapers
- 2721 Periodicals
- 2731 Book publishing
- 2732 Book printing
- 2741 Miscellaneous publishing

### 27B Commercial Printing and Manifold Business Forms

- 2751 Commercial printing, letterpress
- 2752 Commercial printing, lithographic
- 2753 Engraving and plate printing
- 2754 Commercial printing, gravure
- 2761 Manifold business forms

## Major Group 28—CHEMICALS AND ALLIED PRODUCTS

### 28A Industrial Inorganic Chemicals

- 2812 Alkalies and chlorine
- 2813 Industrial gases
- 2816 Inorganic pigments
- 2819 Industrial inorganic chemicals, n.e.c.

### 28B Plastics Materials, Synthetic Rubber, and Manmade Fibers

- 2821 Plastics materials and resins
- 2822 Synthetic rubber
- 2823 Cellulosic manmade fibers
- 2824 Organic fibers, noncellulosic

### 28C Drugs

- 2831 Biological products
- 2833 Medicinals and botanicals
- 2834 Pharmaceutical preparations

### 28D Soap, Cleaners, and Toilet Goods

- 2841 Soap and other detergents
- 2842 Polishes and sanitation goods
- 2843 Surface active agents
- 2844 Toilet preparations

### 28E Paints and Allied Products

- 2851 Paints and allied products

### 28F Industrial Organic Chemicals

- 2861 Gum and wood chemicals
- 2865 Cyclic crudes and intermediates
- 2869 Industrial organic chemicals, n.e.c.

### 28G Agricultural Chemicals

- 2873 Nitrogenous fertilizers
- 2874 Phosphatic fertilizers
- 2875 Fertilizers, mixing only
- 2879 Agricultural chemicals, n.e.c.

### 28H Miscellaneous Chemical Products

- 2891 Adhesives and sealants
- 2892 Explosives
- 2893 Printing ink
- 2895 Carbon black
- 2899 Chemical preparations, n.e.c.



# INDUSTRY DESCRIPTIONS—Continued

## Major Group 29—PETROLEUM AND COAL PRODUCTS

### 29A Petroleum and Coal Products

- 2911 Petroleum refining
- 2951 Paving mixtures and blocks
- 2952 Asphalt felts and coatings
- 2992 Lubricating oils and greases
- 2999 Petroleum and coal products, n.e.c.

## Major Group 30—RUBBER AND PLASTICS PRODUCTS

### 30A Rubber and Miscellaneous Plastics Products

- 3011 Tires and inner tubes
- 3021 Rubber and plastics footwear
- 3031 Reclaimed rubber
- 3041 Rubber and plastics hose and belting
- 3069 Fabricated rubber products, n.e.c.
- 3079 Miscellaneous plastics products

## Major Group 31—LEATHER AND LEATHER PRODUCTS

### 31A Tanning; Industrial Leather Goods; and Shoes

- 3111 Leather tanning and finishing
- 3131 Boot and shoe cut stock and findings
- 3142 House slippers
- 3143 Men's footwear, except athletic
- 3144 Women's footwear, except athletic
- 3149 Footwear, except rubber, n.e.c.

### 31B Leather Gloves; Luggage; and Miscellaneous Leather Goods

- 3151 Leather gloves and mittens
- 3161 Luggage
- 3171 Women's handbags and purses
- 3172 Personal leather goods
- 3199 Leather goods, n.e.c.

## Major Group 32—STONE, CLAY, AND GLASS PRODUCTS

### 32A Glass Products

- 3211 Flat glass
- 3221 Glass containers
- 3229 Pressed and blown glass, n.e.c.
- 3231 Products of purchased glass

### 32B Cement and Structural Clay Products

- 3241 Cement, hydraulic
- 3251 Brick and structural clay tile
- 3253 Ceramic wall and floor tile
- 3255 Clay refractories
- 3259 Structural clay products, n.e.c.

### 32C Pottery and Related Products

- 3261 Vitreous plumbing fixtures
- 3262 Vitreous china food utensils
- 3263 Fine earthenware food utensils
- 3264 Porcelain electrical supplies
- 3269 Pottery products, n.e.c.

### 32D Concrete, Plaster, and Cut-Stone Products

- 3271 Concrete block and brick
- 3272 Concrete products, n.e.c.
- 3273 Ready-mixed concrete
- 3274 Lime
- 3275 Gypsum products
- 3281 Cut stone and stone products

### 32E Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products

- 3291 Abrasive products
- 3292 Asbestos products
- 3293 Gaskets, packing and sealing devices
- 3295 Minerals, ground or treated
- 3296 Mineral wool
- 3297 Nonclay refractories
- 3299 Nonmetallic mineral products, n.e.c.

## Major Group 33—PRIMARY METAL INDUSTRIES

### 33A Blast Furnaces, Steel Works, and Rolling and Finishing Mills

- 3312 Blast furnaces and steel mills
- 3313 Electrometallurgical products
- 3315 Steel wire and related products
- 3316 Cold finishing of steel shapes
- 3317 Steel pipe and tubes

### 33B Ferrous and Nonferrous Foundries

- 3321 Gray iron foundries
- 3322 Malleable iron foundries
- 3324 Steel investment foundries
- 3325 Steel foundries, n.e.c.
- 3361 Aluminum foundries
- 3362 Brass, bronze, and copper foundries
- 3369 Nonferrous foundries, n.e.c.

### 33C Smelting and Refining of Nonferrous Metals and Alloys

- 3331 Primary copper
- 3332 Primary lead
- 3333 Primary zinc
- 3334 Primary aluminum
- 3339 Primary nonferrous metals, n.e.c.
- 3341 Secondary nonferrous metals

**33D Nonferrous Metal Mills and Miscellaneous Primary Metal Products**

- 3351 Copper rolling and drawing
- 3353 Aluminum sheet, plate, and foil
- 3354 Aluminum extruded products
- 3355 Aluminum rolling and drawing, n.e.c.
- 3356 Nonferrous rolling and drawing, n.e.c.
- 3357 Nonferrous wiredrawing and insulating
- 3398 Metal heat treating
- 3399 Primary metal products, n.e.c.

**PART 3**

**Major Group 34—FABRICATED METAL PRODUCTS**

**34A Metal Cans, Cutlery, Handtools, and General Hardware**

- 3411 Metal cans
- 3412 Metal barrels, drums, and pails
- 3421 Cutlery
- 3423 Hand and edge tools, n.e.c.
- 3425 Handsaws and saw blades
- 3429 Hardware, n.e.c.

**34B Heating Apparatus, Except Electric and Warm Air Furnaces, and Plumbing Fixtures**

- 3431 Metal sanitary ware
- 3432 Plumbing fittings and brass goods
- 3433 Heating equipment, except electric

**34C Fabricated Structural Metal Products**

- 3441 Fabricated structural metal products
- 3442 Metal doors, sash, and trim
- 3443 Fabricated platework (boiler shops)
- 3444 Sheet metalwork
- 3446 Architectural metalwork
- 3448 Prefabricated metal buildings
- 3449 Miscellaneous metalwork

**34D Screw Machine Products, Fasteners and Washers; Metal Forgings and Stampings; and Metal Services**

- 3451 Screw machine products
- 3452 Bolts, nuts, rivets, and washers
- 3462 Iron and steel forgings
- 3463 Nonferrous forgings
- 3465 Automotive stampings
- 3466 Crowns and closures
- 3469 Metal stampings, n.e.c.
- 3471 Plating and polishing
- 3479 Metal coating and allied services

**34E Ordnance and Accessories, N.E.C.**

- 3482 Small arms ammunition
- 3483 Ammunition, except for small arms, n.e.c.
- 3484 Small arms
- 3489 Ordnance and accessories, n.e.c.

**34F Miscellaneous Fabricated Metal Products**

- 3493 Steel springs, except wire
- 3494 Valves and pipe fittings
- 3495 Wire springs
- 3496 Miscellaneous fabricated wire products
- 3497 Metal foil and leaf
- 3498 Fabricated pipe and fittings
- 3499 Fabricated metal products, n.e.c.

**Major Group 35—MACHINERY, EXCEPT ELECTRICAL**

**35A Engines and Turbines and Farm Machinery and Equipment**

- 3511 Turbines and turbine generator sets
- 3519 Internal combustion engines, n.e.c.
- 3523 Farm machinery and equipment
- 3524 Lawn and garden equipment

**35B Construction, Mining, and Materials Handling Machinery and Equipment**

- 3531 Construction machinery
- 3532 Mining machinery
- 3533 Oilfield machinery
- 3534 Elevators and moving stairways
- 3535 Conveyors and conveying equipment
- 3536 Hoists, cranes, and monorails
- 3537 Industrial trucks and tractors

**35C Metalworking Machinery and Equipment**

- 3541 Machine tools, metal-cutting types
- 3542 Machine tools, metal-forming types
- 3544 Special dies, tools, jigs, and fixtures
- 3545 Machine tool accessories
- 3546 Power-driven handtools
- 3547 Rolling mill machinery
- 3549 Metalworking machinery, n.e.c.

**35D Special Industry Machinery, Except Metalworking Machinery**

- 3551 Food products machinery
- 3552 Textile machinery
- 3553 Woodworking machinery
- 3554 Paper industries machinery
- 3555 Printing trades machinery
- 3559 Special industry machinery, n.e.c.

**35E General Industrial Machinery and Equipment**

- 3561 Pumps and pumping equipment
- 3562 Ball and roller bearings
- 3563 Air and gas compressors
- 3564 Blowers and fans
- 3565 Industrial patterns
- 3566 Speed changers, drives, and gears
- 3567 Industrial furnances and ovens
- 3568 Power transmission equipment, n.e.c.
- 3569 General industrial machinery, n.e.c.



# INDUSTRY DESCRIPTIONS—Continued

## 35F Office, Computing, and Accounting Machines

- 3572 Typewriters
- 3573 Electronic computing equipment
- 3574 Calculating and accounting machines
- 3576 Scales and balances, except laboratory
- 3579 Office machines, n.e.c.

## 35G Service Industry Machines and Machine Shops

- 3581 Automatic merchandising machines
- 3582 Commercial laundry equipment
- 3585 Refrigeration and heating equipment
- 3586 Measuring and dispensing pumps
- 3589 Service industry machinery, n.e.c.
- 3592 Carburetors, pistons, rings, valves
- 3599 Machinery, except electrical, n.e.c.

## Major Group 36—ELECTRIC AND ELECTRONIC EQUIPMENT

### 36A Electrical Measurement and Distribution Equipment

- 3612 Transformers
- 3613 Switchgear and switchboard apparatus
- 3621 Motors and generators
- 3622 Industrial controls
- 3623 Welding apparatus, electric
- 3624 Carbon and graphite products
- 3629 Electrical industrial apparatus, n.e.c.

### 36B Household Appliances

- 3631 Household cooking equipment
- 3632 Household refrigerators and freezers
- 3633 Household laundry equipment
- 3634 Electric housewares and fans
- 3635 Household vacuum cleaners
- 3636 Sewing machines
- 3639 Household appliances, n.e.c.

### 36C Electric Lighting and Wiring Equipment

- 3641 Electric lamps
- 3643 Current-carrying wiring devices
- 3644 Noncurrent-carrying wiring devices
- 3645 Residential lighting fixtures
- 3646 Commercial lighting fixtures
- 3647 Vehicular lighting equipment
- 3648 Lighting equipment, n.e.c.

### 36D Communication Equipment, Including Radio and TV, and Electronic Components and Accessories

- 3651 Radio and TV receiving sets
- 3652 Phonograph records and prerecorded magnetic tapes
- 3661 Telephone and telegraph apparatus
- 3662 Radio and TV communication equipment
- 3671 Electron tubes, receiving type
- 3672 Cathode ray television picture tubes

### 36D— Communication Equipment, Including Radio and Con. TV, and Electronic Components and Accessories

- 3673 Electron tubes, transmitting
- 3674 Semiconductors and related devices
- 3675 Electronic capacitors
- 3676 Electronic resistors
- 3677 Electronic coils and transformers
- 3678 Electronic connectors
- 3679 Electronic components, n.e.c.

### 36E Miscellaneous Electrical Equipment and Supplies

- 3691 Storage batteries
- 3692 Primary batteries, dry and wet
- 3693 X-ray apparatus and tubes
- 3694 Engine electrical equipment
- 3699 Electrical equipment and supplies, n.e.c.

## Major Group 37—TRANSPORTATION EQUIPMENT

### 37A Motor Vehicles and Equipment

- 3711 Motor vehicles and car bodies
- 3713 Truck and bus bodies
- 3714 Motor vehicle parts and accessories
- 3715 Truck trailers

### 37B Aerospace Equipment Including Parts

- 3721 Aircraft
- 3724 Aircraft engines and engine parts
- 3728 Aircraft equipment, n.e.c.
- 3761 Guided missiles and space vehicles
- 3764 Space propulsion units and parts
- 3769 Space vehicle equipment, n.e.c.

### 37C Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment

- 3731 Ship building and repairing
- 3732 Boat building and repairing
- 3743 Railroad equipment
- 3751 Motorcycles, bicycles, and parts
- 3792 Travel trailers and campers
- 3795 Tanks and tank components
- 3799 Transportation equipment, n.e.c.

## Major Group 38—INSTRUMENTS AND RELATED PRODUCTS

### 38A Engineering, Measuring and Controlling, and Optical Instruments

- 3811 Engineering and scientific instruments
- 3822 Environmental controls
- 3823 Process control instruments
- 3824 Fluid meters and counting devices
- 3825 Instruments to measure electricity
- 3829 Measuring and controlling devices, n.e.c.
- 3832 Optical instruments and lenses

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INDUSTRY DESCRIPTIONS—Continued

**38B Medical Instruments; Ophthalmic Goods; Photographic Equipment; Clocks, Watches, and Watchcases**

- 3841 Surgical and medical instruments
- 3842 Surgical appliances and supplies
- 3843 Dental equipment and supplies
- 3851 Ophthalmic goods
- 3861 Photographic equipment and supplies
- 3873 Watches, clocks, and watchcases

**Major Group 39—MISCELLANEOUS MANUFACTURING INDUSTRIES**

**39A Jewelry, Silverware, and Plated Wire**

- 3911 Jewelry, precious metal
- 3914 Silverware and plated ware
- 3915 Jewelers' materials and lapidary work

**39B Musical Instruments and Parts; Toys and Sporting Goods**

- 3931 Musical instruments
- 3942 Dolls

**39B— Musical Instruments and Parts; Toys and Sporting Con. Goods**

- 3944 Games, toys, and children's vehicles
- 3949 Sporting and athletic goods, n.e.c.

**39C Office Supplies, Costume Jewelry, and Notions**

- 3951 Pens and mechanical pencils
- 3952 Lead pencils and art goods
- 3953 Marking devices
- 3955 Carbon paper and inked ribbons
- 3961 Costume jewelry
- 3962 Artificial flowers
- 3963 Buttons
- 3964 Needles, pins, and fasteners

**39D Miscellaneous Manufactures**

- 3991 Brooms and brushes
- 3993 Signs and advertising displays
- 3995 Burial caskets
- 3996 Hard-surface floor coverings
- 3999 Manufacturing industries, n.e.c.





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## MAJOR GROUP 35

### Machinery, Except Electrical

- 35A Engines and turbines and farm machinery and equipment
- 35B Construction, mining, and materials handling machinery and equipment
- 35C Metalworking machinery and equipment
- 35D Special industry machinery, except metalworking machinery
- 35E General industrial machinery and equipment
- 35F Office, computing and accounting machines
- 35G Service industry machines and machine shops

This major group includes establishments engaged in manufacturing machinery and equipment, other than electrical equipment, Major Group 36, and transportation equipment in Major Group 37. Machines powered by built-in or detachable motors ordinarily are included in this major group, with the exception of electrical household appliances, Major Group 36. Portable tools, both electric and pneumatic-powered, are included in this major group, but handtools are classified in Major Group 34.



TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees <sup>1</sup>		Production workers			Value added by manufacture <sup>2</sup>	Cost of materials <sup>3</sup>	Value of industry shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: <sup>5</sup>											
1972.....	41,457	10,952	1,930.0	20,047.9	1,266.9	2,538.3	11,358.6	37,562.9	29,204.1	65,820.7	1,906.3 <sup>6</sup>
1967.....	38,278	10,847	1,929.4	14,930.2	1,349.0	2,785.0	9,236.1	27,836.4	21,231.6	48,477.2	1,868.1
1963.....	34,197	8,642	1,520.6	10,146.6	1,045.1	2,151.1	6,209.3	17,310.6	13,254.2	30,363.1	783.1
1958.....	30,254	7,513	1,385.8	7,577.6	956.2	1,855.7	4,654.1	12,414.1	(NA)	27,797.7	669.6
1954.....	(NA)	(NA)	1,573.9	7,390.0	1,170.6	2,368.3	4,977.2	12,333.4	(NA)	(NA)	713.6
Administrative and auxiliary units:											
1972 <sup>6</sup> .....	665	353	102.3	1,524.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 <sup>6</sup> .....	386	218	64.9	703.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 <sup>6</sup> .....	494	216	61.2	575.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 <sup>6</sup> .....	386	150	35.5	263.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 <sup>6</sup> .....	(NA)	(NA)	33.1	203.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	40,792	10,599	1,827.7	18,523.3	1,266.9	2,538.3	11,358.6	37,562.9	29,204.1	65,820.7	1,906.3
1967.....	37,892	10,629	1,864.5	14,226.3	1,349.0	2,785.0	9,236.1	27,836.4	21,231.6	48,477.2	1,868.1
1963.....	33,703	8,426	1,459.4	9,571.0	1,045.1	2,151.1	6,209.3	17,310.6	13,254.2	30,363.1	783.1
1958.....	29,868	7,363	1,350.3	7,314.3	956.2	1,855.7	4,654.1	12,414.1	(NA)	22,797.7	669.6
1954.....	25,600	7,521	1,540.7	7,186.2	1,170.6	2,368.3	4,977.2	12,333.4	(NA)	(NA)	713.6
Operating manufacturing establishments:											
1971 <sup>7</sup> .....	(NA)	(NA)	1,743.5	16,235.0	1,187.2	2,334.8	9,740.0	30,680.9	24,536.7	55,559.9	1,696.0
1970 <sup>7</sup> .....	(NA)	(NA)	1,890.6	16,637.8	1,306.4	2,624.2	10,222.4	31,814.3	24,875.0	56,080.6	1,854.9
1969 <sup>7</sup> .....	(NA)	(NA)	1,943.7	16,441.7	1,377.2	2,829.7	10,401.8	32,009.2	24,705.9	55,767.7	1,866.3
1968 <sup>7</sup> .....	(NA)	(NA)	1,848.8	14,754.9	1,320.4	2,700.8	9,427.8	28,777.8	22,071.3	50,605.5	1,743.1
1966 <sup>7</sup> .....	(NA)	(NA)	1,803.7	13,469.8	1,309.9	2,795.8	8,843.0	27,034.9	20,769.7	46,621.9	1,658.3
1965 <sup>7</sup> .....	(NA)	(NA)	1,652.8	11,741.8	1,195.9	2,515.1	7,659.6	22,762.0	17,306.4	39,241.1	1,228.4
1964 <sup>7</sup> .....	(NA)	(NA)	1,538.6	10,606.9	1,108.7	2,327.3	6,982.3	20,302.4	15,304.5	35,060.1	939.4
1962 <sup>7</sup> .....	(NA)	(NA)	1,451.3	9,201.8	1,035.3	2,100.6	5,825.3	16,106.0	12,440.3	28,294.3	717.9
1961 <sup>7</sup> .....	(NA)	(NA)	1,382.4	8,405.1	984.2	1,960.6	5,247.5	14,240.1	11,327.0	25,688.7	658.0
1960 <sup>7</sup> .....	(NA)	(NA)	1,426.4	8,481.8	1,014.0	2,045.3	5,397.6	14,410.3	(NA)	(NA)	700.6
1959 <sup>7</sup> .....	(NA)	(NA)	1,414.2	8,202.6	1,022.4	2,061.8	5,309.6	14,582.3	(NA)	(NA)	606.9
1957 <sup>7</sup> .....	(NA)	(NA)	1,706.5	9,045.6	1,265.1	2,571.2	6,058.1	15,971.9	(NA)	(NA)	991.2
1956 <sup>7</sup> .....	(NA)	(NA)	1,716.8	8,897.2	1,308.2	2,716.8	6,155.8	16,176.1	(NA)	(NA)	887.6
1955 <sup>7</sup> .....	(NA)	(NA)	1,064.0	7,811.9	1,222.4	2,512.5	5,437.9	13,752.9	(NA)	(NA)	653.1
1953 <sup>7</sup> .....	(NA)	(NA)	1,691.2	7,875.8	1,307.3	2,743.7	5,685.7	13,380.7	(NA)	(NA)	754.7
1952 <sup>7</sup> .....	(NA)	(NA)	1,650.8	7,379.9	1,283.7	2,732.9	5,352.0	12,807.5	(NA)	(NA)	(NA)
1951 <sup>7</sup> .....	18,734	(NA)	1,604.0	6,729.2	1,260.2	2,693.2	4,914.1	11,218.7	(NA)	(NA)	631.4
1950 <sup>7</sup> .....	17,909	(NA)	1,367.9	5,063.1	1,064.3	2,182.8	3,609.1	8,764.7	(NA)	(NA)	337.2
1949 <sup>7</sup> .....	(NA)	(NA)	1,295.1	4,559.1	1,004.9	2,012.9	3,175.4	7,688.7	(NA)	(NA)	350.6
1947.....	17,910	(NA)	1,552.1	4,830.1	1,248.9	2,591.2	3,610.4	7,834.0	(NA)	(NA)	517.6
1939 <sup>8</sup> .....	8,860	(NA)	(NA)	(NA)	536.1	(NA)	769.6	2,037.0	(NA)	(NA)	(NA)
1937 <sup>9</sup> .....	7,327	(NA)	(NA)	(NA)	653.5	(NA)	969.7	2,365.8	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

<sup>1</sup>The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.<sup>2</sup>For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.<sup>3</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.<sup>4</sup>The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.<sup>5</sup>See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.<sup>6</sup>Data for number of employees at manufacturers' central administrative offices and auxiliary units are shown in this table for 1954, 1958, 1963, 1967, and 1972, and for 1949 to 1953 in annual survey of manufactures volumes. Data for such employees are not available for 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and for the years prior to 1949.<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.<sup>8</sup>The figures for 1939 to 1972 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in the manufacture of thermostats and gauges, heat treating of steel, machine knives, and tackle blocks, and (b) exclude data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generators and water-wheel generator sets, hair clippers for animal use, brooders, nonferrous bearings, certain industrial furnaces and ovens, time-stamps and time-recording machines, dictating machines, certain valves and fittings (except plumbers') and caulking guns. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,989.6 million.<sup>9</sup>The figures prior to 1937 are not sufficiently comparable to those for later years to be shown in this table, principally because they include data for establishments primarily engaged in the manufacture of aircraft engines and in machine shop repairs.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
35	MACHINERY, EXCEPT ELECTRICAL . . .	40 792	10 599	1 827.7	18 523.3	1 266.9	2 538.3	11 358.6	37 562.9	29 204.1	65 820.7	1 906.3	1 864.5	27 836.4
	NORTHEAST REGION . . . . .	10 427	2 627	472.4	4 799.0	313.5	630.3	2 785.5	9 766.7	6 742.9	16 437.7	488.0	537.8	7 872.2
	NEW ENGLAND DIVISION . . . . .	3 337	854	152.3	1 495.6	100.4	204.8	861.1	3 107.8	1 511.0	4 547.1	153.0	178.7	2 595.8
	MAINE . . . . .	83	22	2.5	22.7	1.9	4.1	14.9	46.1	24.1	68.9	3.3	2.0	17.9
	NEW HAMPSHIRE . . . . .	161	53	9.8	84.6	7.0	14.7	52.4	176.4	78.1	247.2	20.2	10.9	129.1
	VERMONT . . . . .	68	25	5.0	44.0	3.6	7.2	28.7	94.3	45.6	133.1	6.0	7.6	101.7
	MASSACHUSETTS . . . . .	1 523	420	74.3	740.3	46.2	93.1	396.1	1 727.1	833.4	2 514.9	77.1	78.7	1 237.8
	RHODE ISLAND . . . . .	267	51	9.0	84.6	5.9	11.7	47.1	138.1	77.0	214.6	5.5	10.9	138.0
	CONNECTICUT . . . . .	1 235	283	51.7	519.4	35.9	74.0	321.9	925.8	452.8	1 368.4	41.0	64.8	974.2
	MIDDLE ATLANTIC DIVISION . . . . .	7 090	1 773	320.1	3 303.4	213.1	425.4	1 924.4	6 658.9	5 231.9	11 890.6	335.0	359.5	5 273.8
	NEW YORK . . . . .	2 839	649	135.1	1 407.9	90.1	178.7	815.5	2 963.3	2 625.7	5 085.5	158.7	150.0	2 286.0
	NEW JERSEY . . . . .	2 013	461	62.3	629.8	41.4	82.8	371.3	1 298.6	663.2	2 128.3	67.2	70.3	1 041.2
	PENNSYLVANIA . . . . .	2 238	663	122.7	1 265.6	81.7	163.9	737.5	2 377.0	1 743.0	4 076.8	109.1	138.3	1 946.5
	NORTH CENTRAL REGION . . . . .	15 652	4 652	863.5	9 067.7	619.5	1 241.0	5 917.4	17 921.6	14 766.4	32 228.9	820.8	934.5	14 375.0
	EAST NORTH CENTRAL DIVISION . . . . .	12 747	3 757	698.1	7 432.4	502.2	1 007.1	4 893.8	14 415.0	11 926.8	25 954.9	646.9	763.4	12 016.1
	OHIO . . . . .	3 347	962	198.6	2 060.1	142.8	283.3	1 361.6	3 943.1	3 016.5	6 867.6	184.2	215.3	3 253.3
	INDIANA . . . . .	1 242	373	68.6	671.1	49.3	97.8	445.1	1 305.0	978.6	2 244.4	78.6	71.0	1 005.6
	ILLINOIS . . . . .	3 181	917	196.7	2 117.9	141.0	280.3	1 371.7	4 206.2	3 569.7	7 643.5	192.5	223.8	3 415.9
	MICHIGAN . . . . .	3 703	1 048	136.9	1 589.4	100.4	206.7	1 070.6	2 967.8	2 584.4	5 480.7	111.7	165.7	2 750.4
	WISCONSIN . . . . .	1 274	457	97.4	993.8	68.7	138.9	644.8	1 992.9	1 777.6	3 718.7	79.9	107.5	1 590.2
	WEST NORTH CENTRAL DIVISION . . . . .	2 905	895	165.4	1 635.3	117.2	233.9	1 023.6	3 506.6	2 839.6	6 274.0	173.8	153.1	2 380.6
	MINNESOTA . . . . .	878	294	55.0	567.0	33.9	68.7	289.4	1 140.4	925.2	2 058.3	49.7	53.0	912.1
	IOWA . . . . .	487	187	48.0	530.0	35.9	72.3	372.8	1 204.2	968.0	2 139.7	65.6	46.4	753.1
	MISSOURI . . . . .	781	202	30.6	279.7	22.8	44.3	185.6	561.6	415.6	961.7	21.3	31.2	413.1
	NORTH DAKOTA . . . . .	65	11	1.8	16.0	1.3	2.8	9.3	39.6	37.1	76.1	2.1	1.1	11.8
	SOUTH DAKOTA . . . . .	50	19	2.2	15.0	1.7	3.5	9.9	39.8	45.7	83.7	2.1	1.2	14.3
	NEBRASKA . . . . .	203	55	8.7	74.4	6.6	13.5	51.1	192.2	152.6	339.6	13.2	5.9	102.1
	KANSAS . . . . .	451	127	19.1	153.3	15.0	28.8	105.6	328.7	295.4	614.7	19.7	14.2	174.0
	SOUTH REGION . . . . .	7 406	1 871	301.4	2 687.4	215.6	434.2	1 641.7	6 030.3	4 984.3	10 733.6	397.7	224.9	3 098.0
	SOUTH ATLANTIC DIVISION . . . . .	3 145	805	117.6	1 042.0	82.7	167.4	611.9	2 349.3	1 916.2	4 136.2	155.9	90.0	1 144.8
	DELAWARE . . . . .	54	11	3.0	26.7	2.3	4.9	18.1	42.2	27.7	67.3	2.4	1.4	13.3
	MARYLAND . . . . .	304	92	19.4	201.4	14.0	29.2	131.6	396.2	312.9	687.6	18.7	15.9	202.3
	DISTRICT OF COLUMBIA . . . . .	12	4	2.2	1.9	2.2	3.3	1.0	3.0	1.6	5.3	3.3	2.7	2.7
	VIRGINIA . . . . .	317	88	10.6	85.9	8.0	15.7	57.4	191.6	160.5	347.4	12.8	8.8	110.9
	WEST VIRGINIA . . . . .	166	48	4.9	37.2	3.7	6.9	25.3	79.9	73.6	148.6	3.8	4.0	57.3
	NORTH CAROLINA . . . . .	646	183	30.7	278.3	20.3	41.4	142.2	729.1	548.6	1 227.1	49.6	21.8	270.9
	SOUTH CAROLINA . . . . .	285	95	18.9	145.4	14.2	29.0	94.2	406.4	333.4	713.7	36.7	13.8	140.6
	GEORGIA . . . . .	488	115	12.7	103.9	9.6	19.0	65.2	213.3	192.4	391.8	12.4	11.5	135.4
	FLORIDA . . . . .	871	169	17.0	161.4	10.5	21.1	76.8	287.6	265.6	547.5	19.2	12.5	211.1
	EAST SOUTH CENTRAL DIVISION . . . . .	1 293	353	75.9	667.7	57.7	113.2	448.8	1 496.5	1 386.1	2 829.4	115.0	54.5	874.9
	KENTUCKY . . . . .	316	98	32.1	321.9	24.1	46.5	211.7	685.4	608.1	1 281.1	55.3	22.5	467.5
	TENNESSEE . . . . .	473	139	25.9	212.6	20.1	39.7	149.6	518.1	472.4	967.6	24.9	16.0	198.8
	ALABAMA . . . . .	340	71	9.0	67.5	6.6	13.0	42.8	139.2	138.0	276.4	10.2	8.6	100.4
	MISSISSIPPI . . . . .	164	45	8.9	65.8	6.9	13.9	44.7	153.8	167.6	304.4	24.0	7.5	106.2
	WEST SOUTH CENTRAL DIVISION . . . . .	2 968	713	108.0	977.7	75.2	153.6	581.0	2 184.4	1 682.0	3 768.0	126.8	80.6	1 079.6
	ARKANSAS . . . . .	219	51	7.5	53.5	5.6	11.2	34.7	134.2	110.2	238.0	5.4	5.2	60.0
	LOUISIANA . . . . .	293	71	7.0	59.8	5.3	10.7	39.7	123.9	80.9	201.9	8.5	5.1	61.8
	OKLAHOMA . . . . .	487	122	22.7	207.1	14.9	29.7	110.8	476.4	422.2	869.9	44.0	15.0	184.3
	TEXAS . . . . .	1 969	469	70.8	657.3	49.4	102.0	395.9	1 449.9	1 068.8	2 458.3	68.8	55.3	773.6
	WEST REGION . . . . .	7 307	1 449	190.4	1 969.2	118.4	232.9	1 013.9	3 844.3	2 710.5	6 420.6	199.9	167.1	2 490.6
	MOUNTAIN DIVISION . . . . .	1 050	214	34.4	334.6	21.6	42.6	174.5	793.9	597.4	1 341.7	33.9	31.2	528.8
	MONTANA . . . . .	42	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2	2.0
	IDAHO . . . . .	86	14	8	6.0	6.6	1.2	4.4	11.0	9.2	19.5	4	9	10.1
	WYOMING . . . . .	35	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO . . . . .	345	83	14.3	153.3	8.7	17.7	78.1	302.8	341.2	643.8	17.5	11.2	254.1
	NEW MEXICO . . . . .	109	14	1.8	13.3	1.4	2.6	9.2	28.8	30.3	49.0	1.9	1.6	7.0
	ARIZONA . . . . .	264	55	10.1	99.0	5.8	11.8	44.5	309.1	110.5	398.7	9.3	13.6	199.0
	UTAH . . . . .	127	29	5.8	50.8	3.8	7.0	29.9	115.9	82.8	185.2	3.1	4.4	53.3
	NEVADA . . . . .	42	9	6	4.7	4.4	8	3.2	9.1	9.6	17.6	8	2	1.6
	PACIFIC DIVISION . . . . .	6 257	1 235	155.9	1 634.5	96.8	190.3	839.4	3 050.4	2 113.1	5 078.9	166.0	140.5	2 035.3
	WASHINGTON . . . . .	465	99	10.3	107.0	7.5	14.7	71.0	169.7	138.9	307.1	5.4	9.0	123.9
	OREGON . . . . .	413	98	10.1	100.0	7.1	13.1	64.1	185.3	158.1	337.7	5.6	7.8	114.4
	CALIFORNIA . . . . .	5 329	1 034	135.0	1 422.7	81.8	161.7	700.8	2 688.0	1 811.2	4 422.7	154.7	123.1	1 790.2
	HAWAII . . . . .	28	3	4	3.4	3.3	5	2.4	4.8	3.6	7.7	2	5	5.5
351	ENGINES AND TURBINES . . . . .	253	154	116.0	1 320.3	80.9	163.5	833.6	2 899.5	2 715.7	5 507.4	165.5	(NA)	(NA)
	NORTHEAST REGION . . . . .	62	35	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	37.9	624.1
	NEW ENGLAND DIVISION . . . . .	22	16	10.3	110.8	7.1	1							



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
351	ENGINES AND TURBINES--CONTINUEO													
	SOUTH REGION . . . . .	46	27	9.6	105.4	6.9	15.1	69.3	274.5	248.0	500.2	25.4	1.1	11.9
	SOUTH ATLANTIC DIVISION. . . . .	20	10	8.1	93.9	5.8	13.0	62.2	253.0	225.3	456.2	24.1	(NA)	(NA)
	MARYLAND . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH CAROLINA . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA. . . . .	8	2	.3	2.1	.3	.5	1.5	4.4	5.1	9.0	.2	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	TENNESSEE. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	WEST SOUTH CENTRAL DIVISION. . . . .	21	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.8
	OKLAHOMA . . . . .	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	TEXAS. . . . .	16	6	.5	4.4	.4	.7	2.9	9.3	8.7	17.9	.5	AA	(D)
	WEST REGION. . . . .	41	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.9	82.2
	MOUNTAIN DIVISION. . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	COLORADO . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	PACIFIC DIVISION . . . . .	36	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	CALIFORNIA . . . . .	32	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
352	FARM AND GARDEN MACHINERY. . . . .	1 656	650	125.3	1 211.2	95.0	186.4	840.6	2 701.2	3 053.7	5 590.4	163.6	(NA)	(NA)
	NORTHEAST REGION . . . . .	106	26	5.6	57.9	3.5	7.3	31.5	120.3	122.3	237.5	3.6	5.6	96.4
	NEW ENGLAND DIVISION . . . . .	24	4	.3	2.9	.2	.4	1.9	7.2	6.1	13.5	.3	(NA)	(NA)
	CONNECTICUT. . . . .	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	82	24	5.3	55.1	3.2	6.9	29.6	113.1	116.1	224.0	3.5	(NA)	(NA)
	NEW YORK . . . . .	40	11	1.5	13.8	1.1	1.8	7.8	40.4	39.3	77.5	1.5	(NA)	(NA)
	NEW JERSEY . . . . .	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA . . . . .	34	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	867	417	90.6	905.6	68.8	135.4	638.8	2 078.9	2 319.4	4 270.4	121.3	105.8	1 650.5
	EAST NORTH CENTRAL DIVISION. . . . .	384	192	48.8	496.0	36.6	71.3	348.1	1 105.6	1 456.3	2 463.1	56.5	(NA)	(NA)
	OHIO . . . . .	71	31	5.4	44.9	4.1	8.0	31.2	119.1	136.2	248.3	22.2	(NA)	(NA)
	INDIANA . . . . .	65	34	5.4	48.9	4.1	8.0	34.3	105.4	123.8	220.1	3.8	(NA)	(NA)
	ILLINOIS . . . . .	113	61	21.6	235.9	16.9	31.7	170.4	489.7	570.9	992.2	11.6	(NA)	(NA)
	MICHIGAN . . . . .	47	20	3.7	40.6	2.6	5.4	26.9	85.0	268.5	346.2	1.6	(NA)	(NA)
	WISCONSIN. . . . .	88	46	12.8	125.7	8.9	18.3	85.4	306.4	357.0	656.4	17.1	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	483	225	41.8	409.6	32.2	64.1	290.8	973.3	863.1	1 807.3	64.7	(NA)	(NA)
	MINNESOTA. . . . .	81	37	4.4	37.1	3.3	6.9	24.3	80.7	104.0	172.0	3.5	(NA)	(NA)
	IOWA . . . . .	140	76	23.7	269.4	18.4	36.6	196.6	643.4	496.4	1 135.3	45.1	(NA)	(NA)
	MISSOURI . . . . .	45	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH DAKOTA . . . . .	24	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH DAKOTA . . . . .	10	5	.4	2.9	.3	.6	1.9	7.0	6.6	13.1	.2	(NA)	(NA)
	NEBRASKA . . . . .	69	32	4.8	38.8	3.7	7.4	26.6	91.9	96.8	183.7	8.3	(NA)	(NA)
	KANSAS . . . . .	114	47	5.1	34.7	4.0	7.6	22.6	74.2	79.1	151.2	4.7	(NA)	(NA)
	SOUTH REGION . . . . .	390	134	23.7	203.2	18.6	35.8	141.5	404.5	525.3	901.7	34.7	19.2	222.7
	SOUTH ATLANTIC DIVISION. . . . .	150	47	6.9	48.4	5.4	10.5	30.1	124.7	142.1	257.4	10.9	(NA)	(NA)
	VIRGINIA . . . . .	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	32	11	2.2	15.1	1.7	3.3	8.9	26.9	32.7	60.9	.8	(NA)	(NA)
	SOUTH CAROLINA . . . . .	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA . . . . .	46	17	2.4	17.4	1.9	3.5	10.9	49.7	57.8	99.1	3.1	(NA)	(NA)
	FLORIDA. . . . .	45	7	.6	5.6	.5	.9	3.1	10.6	14.5	25.0	.5	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	75	35	12.7	126.9	10.2	19.8	94.0	220.5	315.1	519.5	21.9	(NA)	(NA)
	KENTUCKY . . . . .	9	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE. . . . .	20	7	3.1	38.5	2.5	5.0	28.7	62.6	54.5	116.6	(D)	(NA)	(NA)
	ALABAMA . . . . .	24	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI. . . . .	22	15	2.6	15.4	2.1	4.0	10.2	51.1	76.4	116.6	12.3	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . . .	165	52	4.0	27.8	3.1	5.5	17.4	59.3	68.1	124.8	2.0	(NA)	(NA)
	ARKANSAS . . . . .	28	8	.7	4.2	.5	.9	2.7	7.5	9.4	16.8	.2	(NA)	(NA)
	LOUISIANA . . . . .	17	7	.6	4.9	.4	.9	2.8	8.9	15.4	23.8	.2	(NA)	(NA)
	OKLAHOMA . . . . .	28	7	.8	5.0	.6	1.1	3.3	14.2	12.1	24.5	.6	(NA)	(NA)
	TEXAS. . . . .	92	30	1.9	13.7	1.5	2.7	8.7	28.7	31.2	59.6	.9	(NA)	(NA)
	WEST REGION. . . . .	295	71	5.4	44.5	4.1	8.0	26.8	97.6	86.7	180.8	3.6	5.7	72.0
	MOUNTAIN DIVISION. . . . .	87	22	1.8	14.0	1.4	2.6	8.9	28.0	23.6	49.4	1.8	(NA)	(NA)
	IDAHO . . . . .	20	7	.4	2.7	.3	.6	1.9	4.9	5.3	9.5	(D)	(NA)	(NA)
	COLORADO . . . . .	33	10	.9	7.3	.7	1.3	4.9	15.3	11.4	25.9	.5	(NA)	(NA)
	ARIZONA . . . . .	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH . . . . .	8	2	.2	1.2	.1	.2	.8	2.9	1.9	4.1	.4	(NA)	(NA)
	PACIFIC DIVISION . . . . .	208	49	3.6	30.5	2.7	5.3	19.8	69.6	63.2	131.4	2.0	(NA)	(NA)
	WASHINGTON . . . . .	27	7	.4	3.1	.3	.6	2.1	6.3	7.4	13.7	.1	(NA)	(NA)
	OREGON . . . . .	24	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	155	33	2.7	22.4	2.0	4.0	14.4	54.1	45.5	98.6	1.5	(NA)	(NA)
353	CONSTRUCTION, RELATED MACHINERY. . . . .	2 517	1 228	275.4	2 855.7	189.3	378.2	1 790.3	5 962.2	5 291.6	11 089.5	282.1	(NA)	(NA)
	NORTHEAST REGION . . . . .	421	190	37.5	376.4	23.6	47.0	214.6	810.3	618.8	1 411.0	40.6	38.7	568.7
	NEW ENGLAND DIVISION . . . . .	84	34	3.3	31.5	2.2	4.3	18.4	58.2	42.2	101.1	2.2	4.0	42.1
	MAINE. . . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MASSACHUSETTS. . . . .	56	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	21.6
	CONNECTICUT. . . . .	17	9	.5	5.4	.3	.6	2.7	10.7	8.8	19.7	.6	CC	(D)
	MIDDLE ATLANTIC DIVISION . . . . .	337	156	34.2	344.9	21.4	42.7	196.3	752.1	576.6	1 309.8	38.4	34.7	526.6
	NEW YORK . . . . .	126	50	8.7	83.2	5.1	10.1	44.6	151.6	115.8	262.9	9.2	FF	(D)
	NEW JERSEY . . . . .	65	26	5.3	54.1	3.4	6.5	30.3	147.0	78.2	221.5	5.0	FF	(D)
	PENNSYLVANIA . . . . .	146	80	20.2	207.6	12.9	26.1	121.2	453.5	382.5	825.5	24.2	19.2	301.9

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
353	CONSTRUCTION, RELATED MACHINERY--CONTINUED													
	NORTH CENTRAL REGION . . . . .	951	510	151.5	1 651.6	107.0	212.9	1 081.7	3 399.5	3 258.5	6 579.4	145.2	165.5	2 556.1
	EAST NORTH CENTRAL DIVISION . . . .	705	392	124.0	1 355.6	87.5	173.2	884.6	2 806.7	2 697.6	5 450.5	126.2	140.4	2 156.1
	OHIO . . . . .	220	126	28.0	290.6	18.7	37.5	175.7	517.0	515.8	1 026.1	16.7	30.2	426.6
	INDIANA . . . . .	63	35	6.4	59.2	4.6	8.7	38.8	130.3	118.2	245.3	3.7	6.1	87.2
	ILLINOIS . . . . .	171	93	56.1	647.8	41.3	81.0	442.3	1 448.9	1 305.2	2 730.3	82.4	63.1	1 022.9
	MICHIGAN . . . . .	153	69	14.9	166.6	10.0	19.4	102.6	354.7	419.5	763.4	9.6	20.7	325.8
	WISCONSIN . . . . .	98	69	18.6	191.3	13.1	26.5	125.2	355.7	338.9	685.4	13.7	20.3	293.7
	WEST NORTH CENTRAL DIVISION . . . .	246	118	27.5	296.0	19.5	39.8	197.1	592.8	560.9	1 128.8	19.1	24.7	395.8
	MINNESOTA . . . . .	80	39	7.1	68.3	5.0	10.1	44.4	117.0	122.5	240.0	3.2	6.7	97.0
	IOWA . . . . .	53	30	13.3	159.4	9.7	20.4	111.4	336.2	314.9	630.4	9.5	12.3	226.9
	MISSOURI . . . . .	51	24	2.8	27.1	1.7	3.4	14.4	56.7	44.1	97.0	2.2	2.3	29.4
	NORTH DAKOTA . . . . .	6	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	SOUTH DAKOTA . . . . .	9	4	.3	3.0	.2	.5	2.0	6.8	4.6	11.2	.6	BB	(0)
	NEBRASKA . . . . .	15	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	KANSAS . . . . .	32	15	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.4	28.5
	SOUTH REGION . . . . .	697	347	60.8	563.8	41.8	86.2	339.8	1 187.7	976.2	2 105.9	65.5	47.9	673.5
	SOUTH ATLANTIC DIVISION . . . . .	208	93	10.5	90.3	7.1	13.9	51.1	202.8	205.3	401.2	6.7	6.9	97.5
	MARYLAND . . . . .	14	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.1	11.7
	VIRGINIA . . . . .	29	15	1.8	14.6	1.2	2.5	8.6	40.8	38.9	78.6	.8	.9	16.5
	WEST VIRGINIA . . . . .	37	19	2.1	16.2	1.5	2.8	10.3	43.6	46.7	87.4	1.5	1.8	27.3
	NORTH CAROLINA . . . . .	27	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	6.1
	SOUTH CAROLINA . . . . .	17	9	1.3	10.0	.8	1.6	5.7	25.5	21.3	44.3	(0)	CC	(0)
	GEORGIA . . . . .	26	10	1.5	13.4	1.1	2.2	8.5	24.4	31.7	53.0	.8	1.4	21.7
	FLORIDA . . . . .	57	23	1.5	12.4	1.0	2.0	7.4	20.2	15.6	36.0	.6	.5	6.9
	EAST SOUTH CENTRAL DIVISION . . . .	91	52	7.4	61.7	5.0	9.8	36.0	119.9	119.6	236.6	12.6	7.3	92.4
	KENTUCKY . . . . .	31	15	2.4	22.6	1.4	2.9	11.6	44.3	38.1	82.6	1.3	1.6	20.0
	TENNESSEE . . . . .	23	13	1.3	9.8	1.0	1.9	6.9	24.8	22.3	46.6	1.1	1.7	26.0
	ALABAMA . . . . .	22	16	1.7	13.8	1.2	2.4	8.2	29.0	29.2	56.9	2.0	1.8	20.3
	MISSISSIPPI . . . . .	15	8	2.0	15.5	1.3	2.7	9.3	21.7	30.0	50.5	8.2	2.2	26.2
	WEST SOUTH CENTRAL DIVISION . . . .	398	202	42.9	411.8	29.7	62.4	252.7	865.1	651.3	1 468.1	46.2	33.6	483.6
	ARKANSAS . . . . .	13	4	1.2	10.5	.7	1.5	5.6	27.6	17.0	38.5	.7	CC	(0)
	LOUISIANA . . . . .	42	17	2.4	22.6	1.8	3.9	14.9	45.6	23.6	67.7	5.2	EE	(0)
	OKLAHOMA . . . . .	80	34	7.9	74.0	5.3	11.0	43.1	151.9	176.9	316.3	6.5	6.4	80.2
	TEXAS . . . . .	263	147	31.5	304.7	21.7	46.0	189.2	640.0	433.8	1 045.7	33.9	24.9	375.1
	WEST REGION . . . . .	448	181	25.5	264.0	17.0	32.1	154.2	564.7	438.2	993.3	30.7	20.7	331.5
	MOUNTAIN DIVISION . . . . .	73	32	5.0	46.8	3.3	6.5	29.0	103.8	82.5	182.4	4.6	4.1	60.8
	COLORADO . . . . .	29	18	3.4	32.5	2.2	4.5	19.0	70.4	47.6	115.2	3.4	2.4	40.1
	NEW MEXICO . . . . .	8	2	.2	1.2	.1	.2	.8	1.9	1.6	3.4	.1	(NA)	(NA)
	ARIZONA . . . . .	7	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	UTAH . . . . .	12	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.5	16.7
	PACIFIC DIVISION . . . . .	375	149	20.5	217.2	13.6	25.7	125.2	460.9	355.6	810.9	26.1	16.5	270.7
	WASHINGTON . . . . .	39	14	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.8	24.5
	OREGON . . . . .	56	19	3.7	36.7	2.4	4.3	22.0	70.4	69.0	136.4	1.7	3.1	49.9
	CALIFORNIA . . . . .	279	116	14.7	157.1	9.6	18.2	86.3	361.6	247.4	601.2	23.6	11.6	196.4
354	METALWORKING MACHINERY . . . . .	9 652	2 353	268.1	2 858.6	197.4	408.6	1 898.3	4 901.7	2 445.2	7 267.0	218.8	(NA)	(NA)
	NORTHEAST REGION . . . . .	2 784	627	77.6	788.4	56.4	115.9	517.2	1 403.1	604.6	1 982.7	54.1	106.0	1 533.9
	NEW ENGLAND DIVISION . . . . .	1 040	259	34.9	351.0	24.8	51.2	222.9	618.7	249.6	859.0	24.6	51.7	736.9
	MAINE . . . . .	15	6	.3	3.2	.3	.6	2.3	4.5	1.9	6.2	1.0	.2	2.0
	NEW HAMPSHIRE . . . . .	36	14	1.4	13.6	1.0	2.3	8.7	27.6	12.4	38.5	1.4	1.3	20.7
	VERMONT . . . . .	16	10	3.1	28.4	2.2	4.5	18.9	56.7	28.5	80.6	5.0	5.4	72.3
	MASSACHUSETTS . . . . .	396	103	14.6	147.2	10.3	21.0	93.1	265.6	97.4	363.1	8.4	19.2	275.2
	RHODE ISLAND . . . . .	96	22	3.8	36.2	2.7	5.3	21.7	55.9	23.5	80.2	2.1	5.3	62.3
	CONNECTICUT . . . . .	479	104	11.6	122.4	8.3	17.5	78.2	208.4	85.9	290.4	6.8	20.4	304.5
	MIDDLE ATLANTIC DIVISION . . . . .	1 744	368	42.7	437.5	31.5	64.7	294.3	784.4	355.0	1 123.7	29.5	54.9	797.0
	NEW YORK . . . . .	712	141	17.2	180.9	12.7	26.3	119.9	318.9	133.0	450.7	13.2	21.4	315.8
	NEW JERSEY . . . . .	519	85	7.2	72.3	5.6	11.4	52.4	124.0	51.8	173.9	5.6	10.5	146.9
	PENNSYLVANIA . . . . .	513	142	18.3	184.3	13.3	27.0	122.0	341.5	170.2	499.1	10.7	23.0	334.3
	NORTH CENTRAL REGION . . . . .	5 087	1 390	156.8	1 760.2	114.5	239.4	1 165.9	2 904.6	1 488.1	4 355.3	127.5	198.3	3 091.9
	EAST NORTH CENTRAL DIVISION . . . .	4 661	1 271	145.2	1 649.6	105.6	221.9	1 091.8	2 695.5	1 380.4	4 042.2	117.0	187.6	2 937.8
	OHIO . . . . .	1 075	321	46.3	490.9	32.4	66.6	308.9	825.7	423.7	1 239.3	37.3	61.6	955.8
	INDIANA . . . . .	432	107	8.3	89.3	6.6	14.2	65.3	135.0	53.7	186.9	6.8	9.2	123.9
	ILLINOIS . . . . .	1 016	227	31.8	344.1	22.3	46.4	216.5	534.7	317.8	852.3	26.6	38.9	555.4
	MICHIGAN . . . . .	1 822	541	48.9	611.7	37.5	80.6	431.9	1 031.5	498.1	1 508.8	39.7	64.3	1 096.2
	WISCONSIN . . . . .	316	75	10.0	113.6	6.8	14.1	69.2	168.6	87.1	254.9	6.5	13.5	205.9
	WEST NORTH CENTRAL DIVISION . . . .	426	119	11.5	110.6	8.9	17.5	74.2	209.1	107.7	313.1	10.5	10.7	154.2
	MINNESOTA . . . . .	128	35	3.6	35.9	2.7	5.5	24.3	61.2	31.6	92.2	3.3	3.7	52.4
	IOWA . . . . .	63	21	2.3	22.3	1.7	3.4	14.4	40.0	25.6	64.6	1.4	2.1	31.8
	MISSOURI . . . . .	170	42	4.3	41.7	3.3	6.4	28.4	84.3	38.3	121.1	3.6	4.1	57.1
	SOUTH DAKOTA . . . . .	3	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	NEBRASKA . . . . .	18	3	.2	1.3	.1	.2	.7	2.5	.8	3.3	.1	AA	(0)
	KANSAS . . . . .	42	14	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	7.0
	SOUTH REGION . . . . .	751	164	20.7	175.3	16.5	32.9	122.0	359.2	237.5	586.5	23.3	17.7	228.4
	SOUTH ATLANTIC DIVISION . . . . .	348	82	13.0	109.1	10.5	20.3	77.1	228.0	171.7	394.7	16.4	FF	(0)
	MARYLAND . . . . .	26	6	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	VIRGINIA . . . . .	22	9	.9	7.7	.7	1.4	5.3	17.4	10.0	24.4	.6	.3	3.2
	WEST VIRGINIA . . . . .	14	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	NORTH CAROLINA . . . . .	63	17	3.2	24.4	2.6	4.6	16.8	65.2	50.9	117.4	5.8	1.3	12.3
	SOUTH CAROLINA . . . . .	33	10	2.6	18.4	1.9	3.8	11.7	32.5	37.1	67.6	1.0	1.9	21.3
	GEORGIA . . . . .	48	14	1.0	9.0	.8	1.8	6.5	18.5	8.1	25.2	1.1	.9	10.3
	FLORIDA . . . . .	134	22	1.7	15.5	1.4	3.0	11.2	25.1	12.5	37.4	3.0	1.4	

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
354	METALWORKING MACHINERY--CONTINUED													
	SOUTH REGION--CONTINUED													
	EAST SOUTH CENTRAL DIVISION, . . .	211	55	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	KENTUCKY . . . . .	65	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.4
	TENNESSEE . . . . .	101	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	22.7
	ALABAMA . . . . .	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.4
	MISSISSIPPI . . . . .	17	3	.3	2.4	.2	.4	1.7	4.4	2.3	6.6	.3	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION, . . .	192	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	54.9
	ARKANSAS . . . . .	30	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	7.8
	TEXAS . . . . .	130	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	44.6
	WEST REGION . . . . .	1 030	172	13.1	134.7	10.1	20.4	93.2	234.8	114.9	342.5	13.9	15.0	236.8
	MOUNTAIN DIVISION . . . . .	97	19	1.3	11.4	1.0	1.8	8.1	22.1	11.1	32.0	1.7	.8	9.1
	COLORADO . . . . .	45	12	.8	7.0	.6	1.1	5.0	15.2	6.6	22.5	1.2	.2	3.5
	ARIZONA . . . . .	32	3	.3	2.7	.3	.5	2.0	4.4	1.3	5.6	.3	.4	4.8
	PACIFIC DIVISION . . . . .	933	153	11.9	123.3	9.1	18.6	85.1	212.7	103.9	310.5	12.3	14.2	230.8
	WASHINGTON . . . . .	30	6	.6	6.6	.5	1.0	4.8	9.9	4.9	14.8	.4	.6	10.2
	OREGON . . . . .	36	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	CALIFORNIA . . . . .	865	141	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.3	218.2
355	SPECIAL INDUSTRY MACHINERY . . . .	3 685	1 431	190.1	1 853.9	122.7	247.8	1 034.1	3 731.9	2 576.3	6 207.2	160.0	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 251	449	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	86.3	1 163.8
	NEW ENGLAND DIVISION . . . . .	390	161	30.5	296.0	18.8	38.6	158.1	543.3	340.4	872.2	28.4	34.7	433.0
	MAINE . . . . .	17	6	.6	5.0	.4	.8	2.9	7.7	4.8	13.0	.5	.9	7.3
	NEW HAMPSHIRE . . . . .	24	13	3.5	30.4	2.4	5.3	18.2	64.1	28.2	89.2	1.8	3.6	38.9
	VERMONT . . . . .	15	4	.3	2.1	.2	.4	1.3	3.4	2.2	5.5	.2	.2	1.7
	MASSACHUSETTS . . . . .	226	95	17.1	166.7	10.3	20.8	86.6	302.8	198.8	495.9	13.3	21.4	247.7
	RHODE ISLAND . . . . .	34	14	3.4	31.9	1.9	4.0	15.9	52.4	30.6	83.1	2.7	3.5	51.1
	CONNECTICUT . . . . .	74	29	5.6	60.0	3.6	7.3	33.1	112.8	75.9	185.4	10.0	5.2	86.3
	MIDDLE ATLANTIC DIVISION . . . . .	861	288	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	51.6	730.7
	NEW YORK . . . . .	346	92	11.1	113.3	7.0	13.8	59.2	190.9	143.7	345.6	8.4	17.9	282.8
	NEW JERSEY . . . . .	294	99	11.8	122.2	7.2	14.7	67.0	219.7	140.9	365.0	5.9	13.0	204.0
	PENNSYLVANIA . . . . .	221	97	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.6	243.9
	NORTH CENTRAL REGION . . . . .	1 102	475	62.7	650.9	40.0	81.9	363.4	1 248.4	901.5	2 123.0	44.6	64.7	983.4
	EAST NORTH CENTRAL DIVISION . . . .	897	394	55.4	580.8	35.2	72.0	323.6	1 103.2	805.2	1 886.2	39.3	57.8	881.3
	OHIO . . . . .	264	122	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.5	256.9
	INDIANA . . . . .	84	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	89.4
	ILLINOIS . . . . .	289	116	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.0	236.9
	MICHIGAN . . . . .	138	56	6.1	66.7	3.9	7.6	36.8	120.0	86.8	201.8	5.2	7.8	158.2
	WISCONSIN . . . . .	122	62	9.9	101.9	5.9	12.4	51.0	185.7	141.2	322.0	6.4	10.0	139.9
	WEST NORTH CENTRAL DIVISION . . . .	205	81	7.3	70.1	4.8	10.0	39.8	145.2	96.3	236.8	5.3	6.9	102.1
	MINNESOTA . . . . .	58	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	IOWA . . . . .	40	18	2.2	21.5	1.5	3.1	13.1	51.7	30.1	81.7	1.4	2.1	32.8
	MISSOURI . . . . .	64	20	1.4	13.7	.9	1.9	7.6	26.7	15.3	41.4	.6	2.0	26.1
	NEBRASKA . . . . .	9	3	.2	1.5	.1	.3	1.0	2.7	3.2	5.7	.3	(NA)	(NA)
	KANSAS . . . . .	31	13	1.5	13.8	1.0	2.1	7.6	25.9	19.9	43.7	1.2	1.1	15.3
	SOUTH REGION . . . . .	784	317	40.8	345.5	28.3	57.3	204.1	940.9	583.5	1 461.4	50.7	38.5	474.6
	SOUTH ATLANTIC DIVISION . . . . .	492	211	28.9	247.0	19.8	40.9	143.1	722.9	402.9	1 067.7	41.3	27.4	334.9
	DELAWARE . . . . .	7	4	.6	8.1	.4	.7	4.0	7.2	5.7	12.8	(D)	.8	6.6
	MARYLAND . . . . .	39	19	3.1	31.7	2.0	4.2	18.7	56.7	43.2	96.8	(D)	3.7	48.6
	VIRGINIA . . . . .	33	14	1.6	13.7	1.1	2.1	9.0	39.1	20.0	54.6	2.6	1.5	22.4
	NORTH CAROLINA . . . . .	164	77	10.7	91.8	7.0	14.6	48.0	405.9	190.1	550.6	18.6	9.5	134.3
	SOUTH CAROLINA . . . . .	80	43	6.7	50.3	5.3	10.9	34.8	119.0	75.2	191.0	10.3	6.8	66.9
	GEORGIA . . . . .	94	31	3.5	29.2	2.5	5.2	17.2	53.4	39.0	91.4	3.9	3.4	35.0
	FLORIDA . . . . .	69	23	2.6	21.9	1.5	3.1	11.2	40.8	29.3	69.2	4.0	EE	(D)
	EAST SOUTH CENTRAL DIVISION . . . .	113	45	5.6	45.6	4.1	8.1	29.3	99.7	100.1	197.1	4.3	5.9	73.1
	KENTUCKY . . . . .	37	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	20.3
	TENNESSEE . . . . .	43	16	2.2	17.9	1.6	3.4	11.7	38.1	44.0	81.8	1.2	EE	(D)
	ALABAMA . . . . .	25	11	1.5	11.1	1.1	2.2	7.5	27.6	25.7	52.0	1.4	EE	(D)
	MISSISSIPPI . . . . .	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST SOUTH CENTRAL DIVISION . . . .	179	61	6.2	52.9	4.4	8.3	31.6	118.3	80.6	196.6	5.0	5.2	67.0
	ARKANSAS . . . . .	18	9	.4	3.4	.3	.7	2.2	7.2	4.7	11.1	.7	AA	(D)
	LOUISIANA . . . . .	16	5	.9	6.6	.7	1.2	4.3	17.2	11.1	28.3	.8	BB	(D)
	OKLAHOMA . . . . .	34	14	1.4	11.9	1.0	1.8	7.2	28.2	17.7	45.3	.9	.7	13.0
	TEXAS . . . . .	111	33	3.5	31.0	2.3	4.6	17.9	65.8	47.1	111.9	2.6	3.8	45.5
	WEST REGION . . . . .	548	190	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.1	258.0
	MOUNTAIN DIVISION . . . . .	51	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.9
	IDAHO . . . . .	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WYOMING . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO . . . . .	16	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	ARIZONA . . . . .	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH . . . . .	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	497	176	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.4	248.6
	WASHINGTON . . . . .	60	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	OREGON . . . . .	65	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	32.3
	CALIFORNIA . . . . .	369	124	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.0	188.3
	HAWAII . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>3</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
356	GENERAL INDUSTRIAL MACHINERY . . . . .	3 863	1 436	262.0	2 585.4	182.1	364.9	1 622.0	5 019.7	3 497.7	8 433.7	232.1	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 092	425	88.3	882.1	61.0	123.4	550.0	1 697.3	1 090.1	2 755.6	75.7	110.3	1 552.3
	NEW ENGLAND DIVISION . . . . .	298	120	27.6	270.5	20.6	42.4	184.8	505.3	246.6	742.0	22.8	35.3	488.4
	MAINE . . . . .	4	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	23	11	2.5	20.5	1.8	3.7	12.2	42.2	14.2	54.8	2.3	3.4	40.1
	MASSACHUSETTS . . . . .	148	55	7.7	75.7	5.1	10.3	42.5	148.3	89.1	232.8	8.3	9.7	129.4
	RHODE ISLAND . . . . .	16	7	.8	8.2	.5	1.0	4.0	16.4	16.2	31.4	.3	.7	10.6
	CONNECTICUT . . . . .	104	43	16.2	162.9	12.9	26.8	123.5	290.9	124.4	412.8	11.7	21.2	305.6
	MIDDLE ATLANTIC DIVISION . . . . .	794	305	60.6	611.7	40.4	81.0	365.3	1 192.0	643.5	2 013.6	52.9	75.3	1 066.5
	NEW YORK . . . . .	287	101	21.9	211.2	14.3	28.6	122.8	395.1	264.2	652.9	16.0	28.4	381.6
	NEW JERSEY . . . . .	222	91	13.4	149.4	9.0	17.9	89.9	309.5	231.0	544.4	17.9	16.6	236.0
	PENNSYLVANIA . . . . .	285	113	25.3	251.0	17.1	34.5	152.5	467.4	348.3	816.3	19.0	30.3	448.9
	NORTH CENTRAL REGION . . . . .	1 615	620	120.9	1 232.2	84.9	168.4	791.0	2 378.2	1 568.6	3 917.0	108.7	127.5	1 952.8
	EAST NORTH CENTRAL DIVISION . . . . .	1 375	532	104.4	1 077.3	73.3	146.0	694.2	2 037.8	1 370.3	3 379.5	92.4	116.2	1 763.9
	OHIO . . . . .	346	119	31.6	323.5	22.2	43.3	209.5	574.5	468.9	1 041.7	25.5	36.3	534.9
	INDIANA . . . . .	128	63	18.2	178.9	12.8	25.7	116.9	344.1	214.6	551.4	21.2	21.2	316.2
	ILLINOIS . . . . .	348	144	23.6	233.4	16.5	33.4	146.1	484.8	300.2	777.3	21.1	26.8	412.6
	MICHIGAN . . . . .	374	136	18.0	202.9	13.1	25.9	139.0	362.2	216.3	574.0	13.1	18.2	277.8
	WISCONSIN . . . . .	179	70	13.1	138.7	8.7	17.8	82.8	272.2	170.4	435.1	11.5	13.8	222.5
	WEST NORTH CENTRAL DIVISION . . . . .	240	88	16.4	154.9	11.5	22.3	96.7	340.4	198.3	537.6	16.3	11.3	189.5
	MINNESOTA . . . . .	90	35	5.2	54.9	3.3	6.6	30.3	123.1	63.5	189.3	3.7	4.0	62.5
	IOWA . . . . .	31	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.7	22.4
	MISSOURI . . . . .	71	23	3.2	29.2	2.4	4.5	20.1	43.4	36.0	80.3	3.2	EE	(0)
	SOUTH DAKOTA . . . . .	2	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA . . . . .	12	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	KANSAS . . . . .	33	12	3.8	31.9	2.8	5.2	20.4	61.7	44.5	104.5	2.1	2.2	30.6
	SOUTH REGION . . . . .	583	218	31.2	262.0	22.3	45.7	162.6	562.4	507.6	1 055.8	35.0	22.7	338.8
	SOUTH ATLANTIC DIVISION . . . . .	218	82	10.6	88.2	7.7	16.1	54.3	201.8	173.8	366.1	14.2	7.0	96.3
	MARYLAND . . . . .	19	9	1.8	17.5	1.2	2.4	9.9	37.3	38.1	73.7	.9	EE	(0)
	VIRGINIA . . . . .	23	6	.9	7.4	.7	1.5	5.6	22.3	21.5	41.9	(0)	.9	16.4
	WEST VIRGINIA . . . . .	13	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CAROLINA . . . . .	42	18	2.3	17.7	1.6	3.4	9.7	35.1	38.6	69.9	3.4	.9	12.8
	SOUTH CAROLINA . . . . .	15	9	2.4	17.8	2.0	4.2	13.1	50.2	31.3	80.2	4.6	1.9	24.7
	GEORGIA . . . . .	27	12	1.2	10.2	.8	1.7	6.1	23.0	15.7	38.5	.8	.8	13.3
	FLORIDA . . . . .	71	21	1.5	13.0	1.0	1.9	6.9	26.2	20.8	46.5	2.1	.9	11.4
	EAST SOUTH CENTRAL DIVISION . . . . .	105	48	8.6	73.7	6.4	12.7	48.3	164.7	151.4	315.0	11.0	6.3	113.4
	KENTUCKY . . . . .	22	15	3.6	33.2	2.6	5.1	21.5	81.2	80.2	166.7	6.2	2.9	56.1
	TENNESSEE . . . . .	41	19	2.9	22.3	2.2	4.3	14.8	45.3	43.3	85.3	2.7	1.8	17.6
	ALABAMA . . . . .	29	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	MISSISSIPPI . . . . .	13	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WEST SOUTH CENTRAL DIVISION . . . . .	260	88	12.0	100.2	8.2	16.9	60.0	195.9	182.5	374.7	9.8	9.3	129.1
	ARKANSAS . . . . .	13	6	1.2	7.0	.8	1.7	4.8	20.4	23.0	47.7	1.2	.7	4.6
	LOUISIANA . . . . .	22	6	.5	4.0	.3	.7	2.6	7.7	7.4	14.7	.3	.3	4.8
	OKLAHOMA . . . . .	61	23	4.7	39.1	3.1	6.2	22.7	72.3	68.9	138.5	4.2	3.5	47.3
	TEXAS . . . . .	164	53	5.6	49.3	4.0	8.2	29.8	95.6	83.2	173.7	4.0	4.8	72.4
	WEST REGION . . . . .	573	173	21.6	209.0	13.9	27.4	118.4	381.8	331.4	705.4	12.7	18.6	263.2
	MOUNTAIN DIVISION . . . . .	72	18	3.0	26.3	2.0	3.8	15.4	52.3	50.5	101.2	1.6	2.6	34.6
	COLORADO . . . . .	29	6	1.0	8.1	.7	1.4	5.5	16.2	15.8	31.7	.5	.9	13.9
	ARIZONA . . . . .	15	2	.2	.9	.2	.2	.7	2.2	1.8	4.0	.1	(NA)	(NA)
	UTAH . . . . .	13	5	1.6	15.5	1.0	1.9	8.2	28.7	29.1	57.4	.9	1.5	19.1
	PACIFIC DIVISION . . . . .	501	155	18.7	182.7	11.9	23.6	103.1	329.5	280.9	604.2	11.1	16.1	228.6
	WASHINGTON . . . . .	29	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8	10.5
	DREGDN . . . . .	34	13	2.0	19.7	1.5	2.8	14.7	29.8	28.9	59.7	.5	.3	4.1
	CALIFORNIA . . . . .	437	136	16.4	158.6	10.2	20.3	85.6	290.9	246.6	530.3	10.3	15.0	214.0
357	OFFICE AND COMPUTING MACHINES . . . . .	995	526	208.4	2 277.3	107.4	213.6	900.6	4 904.5	3 726.4	8 604.9	287.0	(NA)	(NA)
	NORTHEAST REGION . . . . .	334	177	66.7	690.8	33.8	65.6	265.0	1 607.8	1 373.4	3 020.0	99.5	65.8	1 160.1
	NEW ENGLAND DIVISION . . . . .	123	67	28.5	279.9	13.8	28.0	103.5	865.4	361.6	1 197.0	46.3	21.2	471.4
	NEW HAMPSHIRE . . . . .	6	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	VERMONT . . . . .	4	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	MASSACHUSETTS . . . . .	86	45	18.2	178.0	8.8	18.0	66.6	675.2	265.7	911.9	36.7	FF	(0)
	CONNECTICUT . . . . .	26	15	8.6	87.3	3.8	7.6	28.7	154.7	73.2	229.9	7.6	10.2	126.2
	MIDDLE ATLANTIC DIVISION . . . . .	211	110	38.2	410.9	20.0	37.7	161.4	742.5	1 011.8	1 823.0	53.2	44.3	683.5
	NEW YORK . . . . .	102	54	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	33.0	488.2
	NEW JERSEY . . . . .	73	36	6.8	65.4	3.7	7.0	27.9	165.5	80.4	226.6	19.5	6.2	112.4
	PENNSYLVANIA . . . . .	36	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	5.1	82.8
	NORTH CENTRAL REGION . . . . .	210	110	52.3	546.1	31.9	62.7	287.3	1 046.9	800.4	1 877.5	43.8	67.6	1 130.1
	EAST NORTH CENTRAL DIVISION . . . . .	142	72	31.4	308.9	21.9	42.0	203.1	576.8	371.3	961.1	23.8	46.9	694.3
	OHIO . . . . .	30	17	15.6	149.6	12.6	23.1	121.8	325.1	117.3	427.3	9.8	FF	(0)
	INDIANA . . . . .	8	3	.2	1.4	.1	.2	.8	2.8	1.7	4.3	.1	BB	(0)
	ILLINOIS . . . . .	55	29	8.5	81.3	4.8	9.6	36.5	177.7	153.0	333.4	8.8	8.9	149.9
	MICHIGAN . . . . .	33	16	6.1	67.7	3.8	8.0	40.4	52.1	69.1	168.4	4.3	FF	(0)
	WISCONSIN . . . . .	16	7	1.0	8.9	.6	1.1	3.7	19.2	10.2	27.6	.7	2.2	22.2
	WEST NORTH CENTRAL DIVISION . . . . .	68	38	21.0	237.2	10.0	20.8	84.3	470.0	429.1	916.3	20.1	20.7	435.8
	MINNESOTA . . . . .	40	25	19.0	222.8	8.6	18.0	76.8	433.6	386.7	839.2	(0)	19.1	414.3
	MISSOURI . . . . .	16	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	SOUTH DAKOTA . . . . .	4	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA . . . . .	3	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	KANSAS . . . . .	2	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll <sup>3</sup>	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
357	OFFICE AND COMPUTING MACHINES-- CONTINUED													
	SOUTH REGION . . . . .	162	74	31.9	363.0	16.8	35.0	140.5	865.9	607.0	1 456.7	56.9	20.5	434.3
	SOUTH ATLANTIC DIVISION . . . . .	93	46	14.1	156.6	7.3	15.4	56.5	222.8	311.8	526.5	18.0	FF	(D)
	DELAWARE . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND . . . . .	14	6	.9	9.5	.6	1.2	5.5	9.9	7.8	15.8	.6	BB	(D)
	VIRGINIA . . . . .	9	4	.5	4.1	.4	.7	2.2	2.6	4.6	8.1	.1	EE	(D)
	NORTH CAROLINA . . . . .	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	SOUTH CAROLINA . . . . .	6	5	1.2	7.8	.9	1.6	5.1	24.2	27.3	45.7	2.1	EE	(D)
	GEORGIA . . . . .	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	FLORIDA . . . . .	40	17	4.9	58.7	1.8	3.7	13.3	100.2	130.8	226.8	5.4	FF	(D)
	EAST SOUTH CENTRAL DIVISION . . . . .	17	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	KENTUCKY . . . . .	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	TENNESSEE . . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	52	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	32.2
	ARKANSAS . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	OKLAHOMA . . . . .	10	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	TEXAS . . . . .	37	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST REGION . . . . .	289	165	57.6	677.4	24.9	50.2	207.8	1 383.9	945.5	2 250.8	86.7	36.4	607.4
	MOUNTAIN DIVISION . . . . .	48	27	13.4	152.3	6.3	12.7	52.3	435.4	328.6	727.4	15.8	FF	(D)
	WYOMING . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO . . . . .	20	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	NEW MEXICO . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA . . . . .	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	UTAH . . . . .	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	241	138	44.1	525.1	18.6	37.5	155.4	948.4	616.9	1 523.4	71.0	FF	(D)
	WASHINGTON . . . . .	10	7	.9	7.8	.5	1.0	3.9	15.0	8.3	22.1	.3	.2	2.8
	CALIFORNIA . . . . .	226	131	43.2	516.9	18.0	36.4	151.4	932.6	608.4	1 500.3	70.7	FF	(D)
358	REFRIGERATION AND SERVICE MACH . . . . .	1 769	803	197.9	1 863.9	143.3	283.3	1 210.7	4 426.7	4 460.1	8 711.0	228.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	443	206	43.7	437.1	31.4	61.7	278.8	1 150.0	970.9	2 091.6	59.4	33.3	518.2
	NEW ENGLAND DIVISION . . . . .	82	35	4.5	42.8	2.8	5.7	23.0	97.7	61.4	156.8	(D)	4.8	71.2
	VERMONT . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	MASSACHUSETTS . . . . .	48	21	2.7	26.4	1.6	3.2	13.3	55.2	28.7	82.2	1.1	2.4	39.1
	CONNECTICUT . . . . .	21	10	1.4	12.4	.9	1.9	7.0	28.8	27.7	56.3	.4	1.4	19.5
	MIDDLE ATLANTIC DIVISION . . . . .	361	171	39.2	394.3	28.6	55.9	255.7	1 052.3	909.5	1 934.8	(D)	28.6	447.0
	NEW YORK . . . . .	157	69	19.6	204.0	15.3	30.1	147.7	694.7	541.0	1 225.4	43.1	10.6	195.5
	NEW JERSEY . . . . .	87	43	9.1	81.9	6.3	11.9	50.5	193.9	199.8	375.9	(D)	8.1	122.1
	PENNSYLVANIA . . . . .	117	59	10.5	108.4	7.1	14.0	57.5	163.7	168.7	333.5	7.3	9.8	129.4
	NORTH CENTRAL REGION . . . . .	612	309	95.2	949.6	69.1	138.2	628.9	2 173.9	2 226.1	4 322.1	82.0	69.5	1 094.3
	EAST NORTH CENTRAL DIVISION . . . . .	455	233	73.9	758.9	53.7	108.1	509.7	1 714.5	1 816.8	3 471.5	64.6	52.5	845.0
	OHIO . . . . .	104	55	33.1	371.7	25.3	52.4	269.5	844.9	857.7	1 658.7	36.6	15.7	295.5
	INDIANA . . . . .	53	24	6.9	54.7	4.8	9.3	36.7	125.2	125.9	250.3	4.5	6.7	79.5
	ILLINOIS . . . . .	162	91	15.8	154.9	11.1	22.2	94.7	325.8	297.5	608.0	11.5	11.9	175.5
	MICHIGAN . . . . .	74	35	11.4	117.4	8.3	16.1	76.2	302.0	422.3	723.3	7.3	11.6	205.0
	WISCONSIN . . . . .	62	28	6.6	60.2	4.2	8.1	32.6	116.5	113.5	231.3	4.6	6.5	89.5
	WEST NORTH CENTRAL DIVISION . . . . .	157	76	21.3	190.7	15.3	30.1	119.2	459.5	409.3	850.6	17.4	17.0	249.3
	MINNESOTA . . . . .	57	30	7.4	69.3	4.8	9.3	37.9	178.9	137.9	306.8	5.2	6.7	108.6
	IOWA . . . . .	26	11	2.1	18.7	1.4	2.5	11.5	36.8	36.6	72.5	(D)	1.5	23.0
	MISSOURI . . . . .	42	26	8.8	79.2	6.3	12.5	48.4	162.7	153.6	309.6	4.1	8.1	107.3
	KANSAS . . . . .	19	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.7
	SOUTH REGION . . . . .	426	193	46.7	367.4	34.8	67.3	238.6	887.5	1 039.7	1 865.0	78.6	27.4	379.8
	SOUTH ATLANTIC DIVISION . . . . .	170	60	11.6	93.2	8.0	15.3	55.4	191.4	192.7	375.4	11.7	8.3	103.0
	DELAWARE . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	MARYLAND . . . . .	20	13	2.7	24.6	1.9	3.6	14.3	66.5	48.1	107.3	5.6	2.1	27.1
	VIRGINIA . . . . .	16	8	2.3	18.6	1.7	3.1	12.0	28.1	38.1	71.5	3.1	EE	(D)
	WEST VIRGINIA . . . . .	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	NORTH CAROLINA . . . . .	26	7	2.5	21.5	1.5	3.0	11.3	37.0	39.5	74.0	.8	2.4	28.8
	SOUTH CAROLINA . . . . .	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.0
	GEORGIA . . . . .	24	9	1.4	10.3	1.0	2.0	6.3	19.7	26.3	43.9	.6	1.4	15.9
	FLORIDA . . . . .	70	16	1.2	9.9	.9	1.8	6.1	21.2	20.3	41.8	1.0	.8	10.3
	EAST SOUTH CENTRAL DIVISION . . . . .	68	44	19.7	152.9	15.7	30.1	110.7	362.5	458.0	801.7	27.1	7.5	123.4
	KENTUCKY . . . . .	18	13	9.1	76.7	7.5	14.3	57.9	169.4	189.3	355.9	11.4	FF	(D)
	TENNESSEE . . . . .	31	21	8.1	56.8	6.3	11.7	39.6	156.4	225.8	363.6	11.5	2.0	33.0
	ALABAMA . . . . .	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	23.6
	MISSISSIPPI . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST SOUTH CENTRAL DIVISION . . . . .	188	89	15.4	121.3	11.1	21.9	72.6	333.6	389.0	687.9	39.8	11.7	153.4
	ARKANSAS . . . . .	17	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.5
	LOUISIANA . . . . .	9	5	.6	4.7	.4	.9	2.8	10.4	10.0	19.7	.2	.4	5.5
	OKLAHOMA . . . . .	34	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	7.1
	TEXAS . . . . .	128	61	10.6	85.2	7.7	15.2	51.7	240.7	288.7	505.5	11.2	9.5	128.3
	WEST REGION . . . . .	288	95	12.3	109.9	8.0	16.1	64.5	215.2	223.5	432.3	8.2	9.3	132.8
	MOUNTAIN DIVISION . . . . .	50	15	2.8	21.8	1.9	4.2	15.4	43.8	43.7	85.1	1.9	1.5	21.5
	COLORADO . . . . .	21	6	.4	3.6	.2	.4	1.8	7.5	8.7	16.3	.2	(NA)	(NA)
	ARIZONA . . . . .	12	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	UTAH . . . . .	7	4	.8	5.4	.5	1.1	3.6	14.0	8.7	22.6	.2	CC	(D)
	NEVADA . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	238	80	9.4	88.0	6.1	11.9	49.1	171.4	179.8	347.3	6.3	7.9	111.3
	OREGON . . . . .	14	6	.4	3.9	.3	.6	2.2	8.4	6.9	14.9	.7	.4	5.5
	CALIFORNIA . . . . .	212	72	8.9	82.9	5.7	11.2	46.0	159.6	170.9	327.0	5.5	7.2	101.1

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
359	MISC. MACHINERY, EXC. ELEC. . . . .	16 400	2 018	184.4	1 697.0	148.8	291.9	1 228.3	3 015.5	1 437.4	4 409.5	149.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	3 934	490	43.4	407.6	34.9	69.9	292.9	723.4	327.6	1 039.3	38.7	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	1 274	158	12.5	110.4	10.0	19.9	78.6	181.6	77.9	256.0	7.4	(NA)	(NA)
	MAINE . . . . .	32	2	.2	1.6	.2	.3	1.1	2.7	1.1	3.8	.2	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	66	8	.6	4.8	.5	1.0	3.6	7.8	2.4	10.1	.5	(NA)	(NA)
	VERMONT . . . . .	26	4	.3	1.7	.2	.4	1.4	3.0	1.4	4.3	.2	(NA)	(NA)
	MASSACHUSETTS . . . . .	544	73	5.2	49.3	4.2	8.5	35.5	80.3	32.2	110.9	3.6	(NA)	(NA)
	RHODE ISLAND . . . . .	106	6	.8	7.2	.7	1.3	4.8	11.6	5.1	16.4	.4	(NA)	(NA)
	CONNECTICUT . . . . .	500	65	5.3	45.8	4.3	8.4	32.2	76.1	35.8	110.4	2.6	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	2 660	332	31.0	297.2	24.9	50.0	214.3	541.8	249.7	783.2	31.3	(NA)	(NA)
	NEW YORK . . . . .	1 052	122	14.3	147.1	11.6	23.3	106.3	277.9	122.6	392.9	17.1	(NA)	(NA)
	NEW JERSEY . . . . .	734	74	6.3	58.0	5.1	10.2	41.4	105.8	45.2	150.1	5.0	(NA)	(NA)
	PENNSYLVANIA . . . . .	874	136	10.3	92.1	8.3	16.5	66.6	158.1	81.8	240.2	9.2	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	5 104	743	72.8	692.0	58.2	113.1	496.9	1 216.3	609.2	1 807.2	55.8	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	4 040	605	57.3	555.5	45.4	88.3	395.2	974.8	488.0	1 448.1	43.3	(NA)	(NA)
	OHIO . . . . .	1 225	165	16.9	164.4	13.1	23.7	114.9	294.5	142.6	431.0	13.2	(NA)	(NA)
	INDIANA . . . . .	401	63	7.0	69.1	5.9	11.3	53.1	113.2	60.1	171.2	4.7	(NA)	(NA)
	ILLINOIS . . . . .	1 008	142	12.2	117.6	9.5	19.1	80.6	202.3	99.6	302.9	9.1	(NA)	(NA)
	MICHIGAN . . . . .	1 038	158	16.1	160.7	12.9	26.1	115.6	277.9	141.3	416.0	12.4	(NA)	(NA)
	WISCONSIN . . . . .	368	77	5.1	43.7	4.1	8.1	30.7	86.8	44.4	126.9	3.8	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	1 064	138	15.5	136.5	12.8	24.8	101.7	241.6	121.2	359.1	12.6	(NA)	(NA)
	MINNESOTA . . . . .	339	63	4.6	40.9	3.8	7.3	29.7	68.9	32.4	100.0	3.9	(NA)	(NA)
	IOWA . . . . .	125	13	1.6	12.6	1.3	2.4	9.3	24.3	15.5	39.6	1.2	(NA)	(NA)
	MISSOURI . . . . .	320	39	6.8	61.8	5.6	10.8	47.7	107.2	50.9	157.3	4.9	(NA)	(NA)
	NEBRASKA . . . . .	66	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	KANSAS . . . . .	175	17	1.8	14.7	1.5	2.9	9.9	24.8	13.0	36.8	1.6	(NA)	(NA)
	SOUTH REGION . . . . .	3 567	397	36.2	301.9	29.6	58.9	223.4	547.7	259.5	800.4	27.5	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	1 446	174	13.8	115.4	11.1	21.9	82.2	202.1	90.7	291.0	12.7	(NA)	(NA)
	DELAWARE . . . . .	27	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND . . . . .	167	31	3.1	29.2	2.3	4.8	19.7	48.1	18.3	64.8	3.1	(NA)	(NA)
	VIRGINIA . . . . .	172	26	1.7	13.9	1.4	2.8	10.2	24.6	10.4	34.6	2.7	(NA)	(NA)
	WEST VIRGINIA . . . . .	96	18	1.3	10.8	1.1	2.0	7.7	18.1	9.8	27.9	.9	(NA)	(NA)
	NORTH CAROLINA . . . . .	278	32	2.5	19.6	2.1	4.1	14.1	35.7	17.9	53.7	1.6	(NA)	(NA)
	SOUTH CAROLINA . . . . .	115	9	.8	6.7	.7	1.4	4.8	12.2	6.8	19.0	.5	(NA)	(NA)
	GEORGIA . . . . .	211	17	1.4	10.6	1.1	2.0	7.7	20.6	9.3	30.3	1.4	(NA)	(NA)
	FLORIDA . . . . .	377	38	2.6	22.3	2.1	4.3	16.2	39.0	16.8	55.7	2.4	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	608	58	8.9	71.4	7.6	15.0	55.9	130.6	79.6	203.3	5.1	(NA)	(NA)
	KENTUCKY . . . . .	126	10	3.3	25.7	2.9	5.5	21.0	51.5	37.2	85.1	1.3	(NA)	(NA)
	TENNESSEE . . . . .	206	29	3.5	29.2	3.1	6.3	23.3	47.8	26.1	71.5	2.4	(NA)	(NA)
	ALABAMA . . . . .	192	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSISSIPPI . . . . .	84	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	1 513	165	13.5	115.1	10.9	22.0	85.3	215.0	89.2	306.0	9.6	(NA)	(NA)
	ARKANSAS . . . . .	98	6	.5	4.1	.5	.9	3.0	7.7	3.2	11.0	.7	(NA)	(NA)
	LOUISIANA . . . . .	173	30	1.9	16.3	1.5	3.1	11.8	32.8	12.9	45.7	1.6	(NA)	(NA)
	OKLAHOMA . . . . .	214	22	1.8	14.3	1.5	2.9	10.6	27.0	11.2	38.0	1.4	(NA)	(NA)
	TEXAS . . . . .	1 028	107	9.2	80.4	7.4	15.2	59.9	147.5	61.9	211.4	6.0	(NA)	(NA)
	WEST REGION . . . . .	3 795	388	32.1	295.6	26.0	50.0	215.1	528.1	241.1	762.7	27.2	(NA)	(NA)
	MOUNTAIN DIVISION . . . . .	567	65	5.0	44.2	4.2	8.1	33.4	74.0	32.5	105.4	3.7	(NA)	(NA)
	IDAHO . . . . .	43	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WYOMING . . . . .	21	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO . . . . .	150	17	1.6	13.8	1.3	2.7	10.8	24.5	11.9	35.4	1.6	(NA)	(NA)
	NEW MEXICO . . . . .	75	4	.4	3.5	.4	.7	2.6	6.2	2.5	8.7	.4	(NA)	(NA)
	ARIZONA . . . . .	164	33	2.0	18.5	1.6	3.2	13.6	28.2	10.3	38.3	.9	(NA)	(NA)
	UTAH . . . . .	65	5	.4	3.4	.4	.7	2.5	5.8	3.0	9.0	.4	(NA)	(NA)
	PACIFIC DIVISION . . . . .	3 228	323	27.0	251.3	21.8	41.9	181.7	454.0	208.6	657.3	23.5	(NA)	(NA)
	WASHINGTON . . . . .	256	34	2.7	25.6	2.0	3.8	17.9	38.0	28.7	65.4	1.7	(NA)	(NA)
	OREGON . . . . .	179	19	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA . . . . .	2 754	269	22.7	209.8	18.4	35.8	152.2	386.4	166.2	548.6	20.5	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

<sup>2</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Machinery, except electrical (SIC 35)	Engines and turbines (SIC 351)	Farm and garden machinery (SIC 352)	Construc- tion and related machinery (SIC 353)	Metal- working machinery (SIC 354)	Special industry machinery (SIC 355)	General industrial machinery (SIC 356)	Office and computing machines (SIC 357)	Refrigera- tion and service machinery (SIC 358)	Miscel- laneous machinery, except electrical (SIC 359)
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	40 792	253	1 658	2 517	9 652	3 685	3 863	995	1 769	16 400
WITH 1 TO 19 EMPLOYEES. . . . .DO .	30 193	99	1 008	1 289	7 299	2 254	2 427	469	966	14 382
WITH 20 TO 99 EMPLOYEES . . . . .DO .	7 673	59	448	758	1 896	1 017	906	267	472	1 850
WITH 100 EMPLOYEES OR MORE. . . . .DO .	2 926	95	202	470	457	414	530	259	331	168
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	1 827.7	116.0	125.3	275.4	268.1	190.1	262.0	208.4	197.9	184.4 <sup>a</sup>
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . .MILLION DOLLARS .	18 523.3	1 320.3	1 211.2	2 855.7	2 858.6	1 853.9	2 585.4	2 277.3	1 863.9	1 697.0
PRODUCTION WORKERS:										
AVERAGE FOR YEAR. . . . .1,000 .	1 266.9	80.9	95.0	189.3	197.4	122.7	182.1	107.4	143.3	148.8
MARCH . . . . .DO .	1 235.1	79.5	92.5	183.4	194.9	120.2	177.0	104.5	140.8	142.1
MAY . . . . .DO .	1 254.1	80.2	94.0	186.0	195.4	121.6	180.1	104.7	143.3	148.8
AUGUST. . . . .DO .	1 265.3	80.7	93.8	190.4	195.6	123.8	183.8	106.2	140.0	151.1
NOVEMBER. . . . .DO .	1 313.2	83.2	99.6	197.5	203.8	125.3	187.6	114.2	148.9	153.1
MAN-HOURS . . . . .MILLIONS .	2 538.3	163.5	186.4	378.2	408.6	247.8	364.9	213.6	283.3	291.9
JANUARY-MARCH . . . . .DO .	618.4	41.1	46.0	90.6	100.7	60.6	88.7	50.9	69.0	70.9
APRIL-JUNE. . . . .DO .	639.0	40.6	47.2	94.0	103.0	62.5	92.4	52.8	73.2	73.4
JULY-SEPTEMBER. . . . .DO .	615.3	38.8	44.4	93.9	98.1	60.4	88.3	51.8	67.5	72.2
OCTOBER-DECEMBER. . . . .DO .	665.6	42.9	48.9	99.7	106.9	64.4	95.5	58.2	73.6	75.5
WAGES . . . . .MILLION DOLLARS .	11 358.6	833.6	840.6	1 790.3	1 898.3	1 034.1	1 622.0	900.6	1 210.7	1 228.3
COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . .DO .	29 204.1	2 715.7	3 053.7	5 291.6	2 445.2	2 576.3	3 497.7	3 726.4	4 460.1	1 437.4
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED . . . . .DO .	25 881.4	2 487.2	2 847.1	4 703.9	2 027.3	2 085.5	3 018.4	3 423.4	4 112.2	1 176.4
COST OF REALES . . . . .DO .	1 866.9	149.3	138.5	372.7	146.7	319.3	275.6	160.2	256.6	48.0
FUELS CONSUMED. . . . .DO .	197.2	16.8	23.4	32.5	24.9	16.8	31.4	11.2	23.0	17.2
PURCHASED ELECTRIC ENERGY . . . . .DO .	333.6	22.9	20.1	51.0	51.8	31.7	51.6	32.8	35.0	36.8
CONTRACT WORK . . . . .DO .	925.0	39.5	24.5	131.6	194.5	123.0	120.9	98.8	33.4	158.9
VALUE OF SHIPMENTS, INCLUDING REALES <sup>1</sup> . . . . .DO .	65 820.7	5 507.4	5 590.4	11 089.5	7 267.0	6 207.2	8 433.7	8 604.9	8 711.0	4 409.5
VALUE OF REALES. . . . .DO .	2 544.0	217.8	186.6	497.9	201.1	430.9	360.7	225.7	355.2	68.1
VALUE ADDED BY MANUFACTURE. . . . .DO .	37 562.9	2 899.5	2 701.2	5 962.2	4 901.7	3 731.9	5 019.7	4 904.5	4 426.7	3 015.5
MANUFACTURERS' INVENTORIES:										
BEGINNING OF YEAR, TOTAL. . . . .DO .	14 207.4	1 101.6	1 125.3	2 824.9	1 555.6	1 521.8	1 940.4	2 109.7	1 543.5	484.3
FINISHED PRODUCTS . . . . .DO .	4 402.4	264.6	454.3	985.5	459.9	478.5	679.3	377.2	558.8	144.4
WORK IN PROCESS . . . . .DO .	6 115.1	621.1	362.5	975.6	740.0	647.5	808.1	1 273.9	478.3	208.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO .	3 689.8	216.0	308.5	863.8	355.8	395.9	453.0	458.7	506.4	131.9
END OF YEAR, TOTAL. . . . .DO .	15 036.8	1 167.8	1 285.9	2 990.4	1 646.4	1 585.5	2 043.7	2 083.7	1 704.7	528.6
FINISHED PRODUCTS . . . . .DO .	4 466.7	271.9	477.2	981.0	436.4	474.3	681.4	359.8	641.4	143.4
WORK IN PROCESS . . . . .DO .	6 700.1	705.4	443.9	1 123.6	832.3	740.1	872.4	1 211.3	525.2	245.9
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO .	3 870.0	190.5	364.8	885.9	377.6	371.1	489.9	512.6	538.2	139.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .DO .	2 076.6	190.1	173.0	298.8	250.3	174.7	260.3	319.5	236.6	173.3
NEW PLANT AND EQUIPMENT, TOTAL. . . . .DO .	1 906.3	185.5	163.6	282.1	218.8	160.0	232.1	287.0	228.2	149.2
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .DO .	428.2	44.3	41.0	59.9	44.5	43.2	47.2	71.1	46.9	29.9
NEW MACHINERY AND EQUIPMENT . . . . .DO .	1 478.2	141.2	122.5	222.1	174.3	116.7	184.9	215.9	181.3	119.3
USED PLANT AND EQUIPMENT. . . . .DO .	170.2	4.6	9.4	16.7	31.6	14.8	28.2	32.5	8.4	24.0

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

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# Engines and Turbines and Farm Machinery and Equipment

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# EXPLANATORY TEXT

## ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3511—Steam, Gas, and Hydraulic Turbines and Turbine Generator Set Units\***
- 3519—Internal Combustion Engines, N.E.C.**
- 3523—Farm Machinery and Equipment**
- 3524—Garden Tractors and Lawn and Garden Equipment\***

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3511.—TURBINES AND TURBINE GENERATOR SETS (Short Title)

This industry includes establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; complete steam, gas, and hydraulic turbine generator set units; and steam engines. For a detailed list of products of industry 3511, refer to table 6A, product codes 35111 13 to 35112 81.

Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3743 (Railroad Equipment); and those manufacturing nonautomotive-type generators which are not part of a turbine generator set, in industry 3621 (Motors and Generators).

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\*Note that the "short title" for this industry is used throughout the report.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Turbines and Turbine Generator Sets Industry in 1972 totaled \$2,189 million. This included shipments of turbines and turbine generator sets (primary products) valued at \$1,877 million, shipments of other products (secondary products) valued at \$171 million, and miscellaneous receipts (mainly resales) of \$141 million.

Shipments of turbines and turbine generator sets (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent.

Shipments of turbines and turbine generator sets (primary products) from establishments classified in industry 3511 in 1972 represented 90 percent (coverage ratio) of these products valued at \$2,080 million shipped by all industries. In 1967, the coverage ratio was 78 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3511, these establishments accounted for less than 1 percent of value of shipments.

### INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES, N.E.C.

This industry includes establishments primarily engaged in manufacturing diesel, semidiesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. For a detailed list of products of industry 3519, refer to table 6A, product codes 35191 00 to 35199 15.

Establishments primarily engaged in manufacturing aircraft engines are classified in industry 3724 (Aircraft Engines and Engine Parts); automotive engines (except diesel) in industry 3714 (Motor Vehicle Parts and Accessories); engine generator sets in industry 3621 (Motors and Generators); and guided

missile and space vehicle propulsion units in industry 3764 (Space Propulsion Units and Parts).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Internal Combustion Engines, N.E.C., Industry in 1972 totaled \$3,326 million. This included shipments of internal combustion engines, n.e.c., (primary products) valued at \$2,872 million, shipments of other products (secondary products) valued at \$270 million, and miscellaneous receipts (mainly resales) of \$184 million.

Shipments of internal combustion engines, n.e.c., (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

Shipments of internal combustion engines, n.e.c., (primary products) from establishments classified in industry 3519 in 1972 represented 86 percent (coverage ratio) of these products valued at \$3,353 million shipped by all industries. In 1967, the coverage ratio was 83 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3519, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3523.—FARM MACHINERY AND EQUIPMENT**

This industry includes establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparation of crops for market, on the farm; or for use in performing other farm operations and processes. For a detailed list of products of industry 3523, refer to table 6A, product codes 35231 00 to 35239 85.

Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry

3537 (Industrial Trucks and Tractors); contractors' off-highway tractors are classified in industry 3531 (Construction Machinery); farm handtools in SIC group 342 (Cutlery, Handtools, and Hardware); and garden tractors, lawnmowers, and other lawn and garden equipment in industry 3524.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The classification system followed in the 1967 census were split, as a result of the 1972 edition of the SIC manual, into two separate industries: Industry 3523, Farm Machinery and Equipment; and industry 3524, Lawn and Garden Equipment. Farm trailers and wagons previously classified in industry 3799 (Transportation Equipment, N.E.C.), are now included in industry 3523. The effects of these changes can be seen in table 1C.

Value of shipments and other receipts of the Farm Machinery and Equipment Industry in 1972 totaled \$4,530 million. This included shipments of farm machinery and equipment (primary products) valued at \$3,906 million, shipments of other products (secondary products) valued at \$430 million, and miscellaneous receipts (mainly resales) of \$194 million.

Shipments of farm machinery and equipment (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of farm machinery and equipment (primary products) from establishments classified in industry 3523 in 1972 represented 94 percent (coverage ratio) of these products valued at \$4,144 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3523, these establishments accounted for 4 percent of value of shipments.

#### **INDUSTRY 3524.—LAWN AND GARDEN EQUIPMENT (Short Title)**

This industry includes establishments primarily engaged in manufacturing lawnmowers, garden tractors, and other lawn and garden equipment used for home lawn and garden care. This industry also includes establishments primarily engaged in



manufacturing snowblowers and throwers for residential use. For a detailed list of products of industry 3524, refer to table 6A, product codes 35242 00 to 35249 81.

Establishments primarily engaged in manufacturing farm machinery and equipment are classified in industry 3523; hand lawn and garden shears and pruners in industry 3421 (Cutlery); and other garden handtools in industry 3423 (Hand and Edge Tools, N.E.C.).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Lawn and Garden Equipment Industry is included for the first time in the census of manufactures for 1972. Old SIC industry 3522, Farm Machinery, has been divided into two new industries: Industry 3523, Farm Machinery and Equipment, and industry 3524, Lawn and Garden Equipment. The effects of SIC code changes between 1967 and 1972 can be seen in table 1C.

Value of shipments and other receipts of the Lawn and Garden Equipment Industry in 1972 totaled \$1,059 million. This included shipments of lawn and garden equipment

(primary products) valued at \$932 million, shipments of other products (secondary products) valued at \$106 million, and miscellaneous receipts (mainly resales) of \$21 million.

Shipments of lawn and garden equipment (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of lawn and garden equipment (primary products) from establishments classified in industry 3524 in 1972 represented 82 percent (coverage ratio) of these products valued at \$1,143 million shipped by all industries. Other industries shipping lawn and garden equipment consisted mainly of industry 3523, Farm Machinery and Equipment, (\$79 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3524, these establishments accounted for 1 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3511.--TURBINES AND TURBINE GENERATOR SETS															
1972 Census .....	75	46	46.2	548.9	28.8	59.2	299.1	1,225.3	968.6	2,189.0	93.5	(NA)	528.3	92	90
1971 ASM .....	(NA)	(NA)	48.9	540.8	31.4	63.1	315.6	1,089.8	1,112.7	2,202.2	109.7	830.6	594.1	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	47.6	488.4	29.6	60.9	282.3	961.3	966.3	1,804.7	93.6	758.1	617.0	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	42.9	414.8	27.3	57.5	249.0	707.7	717.4	1,501.5	124.0	609.1	443.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	37.6	344.8	24.5	50.1	202.0	609.8	608.3	1,200.8	113.9	532.0	379.5	(NA)	(AA)
1967 Census.....	27	23	36.2	318.8	24.6	49.9	195.6	582.3	475.5	1,043.2	66.3	442.2	314.2	83	78
1966 ASM .....	(NA)	(NA)	34.4	299.5	23.8	49.7	192.6	504.8	424.3	867.2	33.8	(NA)	316.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	34.6	285.1	23.8	47.8	182.1	477.0	351.1	793.9	29.3	(NA)	253.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	32.6	264.0	21.7	42.4	164.4	458.4	296.3	744.8	14.2	323.8	201.3	(NA)	(NA)
1963 Census.....	22	21	30.9	237.5	19.9	38.9	141.7	379.9	242.7	616.4	19.4	328.3	176.2	85	82
1962 ASM .....	(NA)	(NA)	33.1	245.6	21.1	41.3	145.2	408.4	252.7	657.7	16.7	325.4	185.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	33.8	238.5	21.1	41.1	138.0	420.0	251.1	696.0	19.0	(NA)	167.6	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	36.6	244.9	23.4	44.7	142.8	505.5	260.7	758.3	16.5	(NA)	192.3	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	40.3	260.0	25.5	50.0	155.1	497.6	287.5	814.0	18.7	(NA)	205.3	(NA)	(NA)
1958 Census .....	28	25	45.3	274.6	29.3	57.8	172.1	568.6	361.1	961.8	20.5	(NA)	236.0	78	94
INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES, N.E.C.															
1972 Census.....	179	109	70.0	773.1	52.3	104.6	535.6	1,677.4	1,751.2	3,326.1	94.6	(NA)	640.1	91	86
1971 ASM .....	(NA)	(NA)	65.9	660.8	48.8	93.6	441.4	1,440.7	1,388.3	2,822.7	78.0	1,056.7	555.7	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	69.3	659.6	51.2	100.4	439.6	1,326.6	1,351.2	2,676.0	134.5	1,048.7	563.6	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	75.5	686.2	56.2	114.4	468.3	1,375.5	1,478.2	2,804.0	81.9	908.4	539.4	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	66.1	545.2	49.5	100.0	373.1	1,111.0	1,212.0	2,279.0	88.7	799.1	450.6	(NA)	(NA)
1967 Census.....	155	96	63.7	500.8	47.5	97.2	344.6	1,015.8	1,091.5	2,093.2	97.6	724.3	414.1	89	83
1966 ASM .....	(NA)	(NA)	64.1	494.0	48.1	102.3	349.4	1,074.7	1,041.4	2,052.5	71.8	(NA)	402.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	59.2	426.7	44.5	89.5	292.4	912.9	888.6	1,768.8	58.8	(NA)	343.4	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	58.2	402.4	42.1	85.6	268.4	823.3	830.2	1,622.2	45.9	564.0	310.8	(NA)	(NA)
1963 Census.....	143	81	55.7	371.8	41.8	85.0	260.0	733.6	745.8	1,473.6	34.8	521.6	279.3	86	85
1962 ASM .....	(NA)	(NA)	53.1	335.5	41.1	78.5	231.2	623.3	708.4	1,316.9	30.2	496.0	257.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	46.1	280.9	40.2	65.3	184.1	501.0	561.8	1,080.0	32.0	(NA)	231.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	50.0	297.5	43.6	71.2	199.0	520.4	612.2	1,158.5	24.7	(NA)	240.1	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	55.9	336.6	42.7	84.4	229.0	656.1	682.9	1,296.8	35.6	(NA)	282.2	(NA)	(NA)
1958 Census .....	113	76	52.0	286.8	42.6	72.6	191.0	520.4	552.3	1,055.8	50.6	(NA)	230.7	90	82
INDUSTRY 3523.--FARM MACHINERY AND EQUIPMENT															
1972 Census.....	1,547	563	104.6	1,045.4	79.9	157.1	732.2	2,247.5	2,400.1	4,529.7	115.8	(NA)	997.4	90	94
INDUSTRY 3524.--LAWN AND GARDEN EQUIPMENT															
1972 Census.....	110	86	20.7	165.5	15.1	29.3	108.3	453.2	652.2	1,059.1	47.6	(NA)	287.2	90	82
1967 INDUSTRY 3522.--FARM MACHINERY (Old SIC Basis)															
1972 Census.....	1,577	620	120.8	1,174.4	91.5	179.3	815.5	2,592.7	2,940.7	5,367.5	160.1	(NA)	1,250.3	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	114.9	1,022.0	83.9	161.6	673.0	1,992.7	2,457.3	4,564.4	99.4	1,339.1	1,077.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	123.3	977.2	91.2	175.3	646.2	1,996.6	2,350.3	4,332.3	98.7	1,325.3	1,099.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	126.8	975.4	94.1	182.0	649.7	1,939.5	2,247.0	4,165.4	102.3	1,278.7	1,094.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	130.2	965.6	98.2	191.1	667.3	2,034.0	2,292.3	4,300.4	122.0	1,192.3	1,025.7	(NA)	(NA)
1967 Census.....	1,618	661	136.3	946.7	104.0	203.2	662.3	2,041.5	2,323.2	4,299.9	128.5	1,101.9	994.6	92	94
1966 ASM.....	(NA)	(NA)	137.3	966.3	105.2	213.7	679.4	2,057.1	2,362.2	4,332.0	108.9	(NA)	927.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	123.2	819.0	93.9	188.7	573.1	1,682.3	1,867.8	3,532.6	86.7	(NA)	800.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	118.6	769.9	90.2	181.9	538.3	1,526.1	1,745.2	3,204.1	83.6	981.4	748.0	(NA)	(NA)
1963 Census.....	1,568	558	112.6	689.1	84.6	168.9	476.8	1,328.4	1,536.8	2,842.2	64.4	917.8	669.3	89	95
1962 ASM.....	(NA)	(NA)	106.2	618.2	77.1	151.7	413.0	1,205.9	1,335.0	2,482.0	43.0	897.3	648.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	102.5	579.3	76.4	150.7	382.0	1,057.1	1,251.6	2,339.5	45.9	(NA)	545.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	99.1	540.2	71.1	141.7	355.5	941.0	1,162.1	2,162.6	55.6	(NA)	549.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	113.2	617.8	84.8	167.7	424.0	1,172.2	1,450.7	2,559.5	42.8	(NA)	601.9	(NA)	(NA)
1958 Census.....	1,469	509	108.6	551.0	79.9	154.0	373.2	1,087.8	1,318.4	2,421.9	54.7	(NA)	516.0	90	94

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3511	Industry 3519	Industry 3523	Industry 3524
1972.....	59	145	1,465	100
1967.....	20	129	(NA)	(NA)
1963.....	17	120	(NA)	(NA)

(NA) Not available.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3511.--TURBINES AND TURBINE GENERATOR SETS											
1972 Census.....	11,881	(NA)	62	2,056	5.05	.44	.69	(NA)	26,522	45	20.70 <sup>a</sup>
1971 ASM.....	11,059	16,990	64	2,010	5.00	.51	.75	.38	22,286	50	17.27
1970 ASM.....	10,261	15,930	62	2,057	4.64	.51	.81	.42	20,195	51	20.20
1969 ASM.....	9,669	14,200	64	2,106	4.33	.48	.75	.41	16,497	59	12.31
1968 ASM.....	9,170	14,150	65	2,045	4.03	.51	.79	.44	16,218	57	12.17
1967 Census.....	8,809	12,220	68	2,028	3.92	.46	.76	.42	16,086	55	11.67
1966 ASM.....	8,699	(NA)	69	2,089	3.87	.49	.83	(NA)	14,658	59	10.15
1965 ASM.....	8,231	(NA)	69	2,014	3.81	.44	.80	(NA)	13,770	60	9.97
1964 ASM.....	8,088	9,930	67	1,954	3.87	.40	.75	.43	14,046	58	10.80
1963 Census.....	7,682	10,620	64	1,957	3.64	.39	.78	.53	12,287	63	9.76
1962 ASM.....	7,412	9,830	64	1,956	3.52	.38	.76	.49	12,326	60	9.89
1961 ASM.....	7,046	(NA)	62	1,949	3.36	.36	.70	(NA)	12,408	57	10.22
1960 ASM.....	6,689	(NA)	64	1,908	3.19	.34	.67	(NA)	13,806	48	11.31
1959 ASM.....	6,449	(NA)	63	1,963	3.10	.35	.67	(NA)	12,342	52	9.95
1958 Census.....	6,055	(NA)	65	1,971	2.98	.38	.66	(NA)	12,540	48	9.84
INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES, N.E.C.											
1972 Census.....	11,044	(NA)	75	2,000	5.12	.53	.76	(NA)	23,963	46	16.04
1971 ASM.....	10,027	16,030	74	1,918	4.72	.49	.73	.37	21,862	50	15.39
1970 ASM.....	9,518	15,130	74	1,961	4.38	.51	.75	.39	19,143	50	13.21
1969 ASM.....	9,089	12,030	74	2,036	4.09	.53	.77	.32	18,219	50	12.02
1968 ASM.....	8,248	12,090	75	2,020	3.73	.53	.77	.35	16,808	49	11.11
1967 Census.....	7,861	11,370	75	2,046	3.55	.52	.76	.35	15,947	49	10.45
1966 ASM.....	7,701	(NA)	75	2,125	3.42	.51	.75	(NA)	16,753	46	10.51
1965 ASM.....	7,213	(NA)	75	2,010	3.27	.50	.74	(NA)	15,431	47	10.20
1964 ASM.....	6,919	9,690	72	2,033	3.14	.51	.76	.35	14,156	49	9.62
1963 Census.....	6,677	9,360	75	2,036	3.06	.51	.76	.35	13,174	51	8.63
1962 ASM.....	6,317	9,340	77	1,907	2.95	.54	.79	.38	11,735	54	7.94
1961 ASM.....	6,089	(NA)	87	1,625	2.82	.52	.78	(NA)	10,859	56	7.67
1960 ASM.....	5,949	(NA)	87	1,632	2.80	.53	.79	(NA)	10,408	57	7.31
1959 ASM.....	6,024	(NA)	76	1,978	2.71	.53	.79	(NA)	11,741	51	7.77
1958 Census.....	5,515	(NA)	82	1,703	2.63	.52	.79	(NA)	10,008	55	7.17
INDUSTRY 3523.--FARM MACHINERY AND EQUIPMENT											
1972 Census.....	9,994	(NA)	76	1,966	4.66	.53	.76	(NA)	21,487	47	14.31
INDUSTRY 3524.--LAWN AND GARDEN EQUIPMENT											
1972 Census.....	7,995	(NA)	73	1,940	3.70	.62	.77	(NA)	21,894	37	15.47

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)	
New industry 3523.--Farm Machinery and Equipment.....	1,547	563	104.6	2,247.5	4,529.7	(X)	(X)	(X)	(X)	(X)
Old industry 3522.--Farm Machinery.....	1,467	547	100.1	2,139.5	4,308.4	1,577	620	120.8	2,592.7	5,367.5
Old industry 3799.--Transportation Equipment, N.E.C.....	80	16	4.5	108.0	221.3	594	236	22.4	325.0	891.3
New industry 3524.--Lawn and Garden Equipment.....	110	82	20.7	453.2	1,059.1	(X)	(X)	(X)	(X)	(X)
Old industry 3522.--Farm Machinery.....	110	82	20.7	453.2	1,059.1	1,577	620	120.8	2,592.7	5,367.5

(X) Not applicable.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1987	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3511-- TURBINES, TURBINE GENERATOR SETS													
UNITED STATES. . . . .	75	46	46.2	548.9	28.8	59.2	299.1	1 225.3	968.6	2 189.0	93.5	36.2	582.3
NORTHEAST REGION . . . . .	34	23	36.0	432.9	22.8	46.5	240.2	954.0	736.3	1 697.9	61.4	FF	(D)
NEW ENGLAND DIVISION . . . . .	13	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MAINE. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.5
MIDDLE ATLANTIC DIVISION . . . . .	21	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY . . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA . . . . .	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	19	11	2.9	33.5	1.6	3.7	17.6	49.2	37.6	87.2	8.6	.3	5.1
EAST NORTH CENTRAL DIVISION. . . . .	15	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
OHIO . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN . . . . .	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST NORTH CENTRAL DIVISION. . . . .	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	15	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19.2	222.7
SOUTH ATLANTIC DIVISION. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PACIFIC DIVISION . . . . .	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA . . . . .	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3519-- INTERNAL COMBUSTION ENGINES, NEC													
UNITED STATES. . . . .	179	109	70.0	773.1	52.3	104.6	535.6	1 677.4	1 751.2	3 326.1	94.6	63.7	1 015.8
NORTHEAST REGION . . . . .	29	13	4.7	42.8	3.4	7.0	30.5	86.9	54.7	142.8	4.6	FF	(D)
NEW ENGLAND DIVISION . . . . .	9	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS. . . . .	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	20	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK . . . . .	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA . . . . .	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CENTRAL REGION . . . . .	85	67	57.9	646.1	43.4	85.2	445.8	1 425.7	1 557.1	2 889.8	83.2	53.6	874.8
EAST NORTH CENTRAL DIVISION. . . . .	73	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA. . . . .	7	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS . . . . .	16	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.6	143.8
MICHIGAN . . . . .	19	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN. . . . .	23	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION. . . . .	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MINNESOTA. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
IOWA . . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	13.7
MISSOURI . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION . . . . .	31	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH ATLANTIC DIVISION. . . . .	11	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MARYLAND . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	E1 16	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.8
OKLAHOMA . . . . .	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS. . . . .	E1 12	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION. . . . .	34	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MOUNTAIN DIVISION. . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
COLORADO . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION . . . . .	31	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA . . . . .	28	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3523-- FARM MACHINERY AND EQUIPMENT													
UNITED STATES. . . . .	1 547	563	104.6	1 045.4	79.9	157.1	732.2	2 247.5	2 400.1	4 529.7	115.8	(NA)	(NA)
NORTHEAST REGION . . . . .	100	24	4.9	51.0	3.1	6.6	28.1	107.4	109.7	213.3	3.2	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	E2 23	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	77	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK . . . . .	37	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY . . . . .	E1 6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	34	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3523-- FARM MACHINERY AND EQUIPMENT-- CONTINUED													
NDRTH CENTRAL REGION . . . . .	804	361	75.8	782.3	58.3	115.2	557.3	1 755.3	1 846.9	3 501.2	90.3	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	343	155	37.9	402.5	29.0	56.2	284.4	842.8	1 106.5	1 867.3	29.6	(NA)	(NA)
OHIO . . . . .	62	23	2.9	26.9	2.3	4.5	19.0	51.7	43.7	95.2	1.5	(NA)	(NA)
INDIANA . . . . .	56	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	103	51	20.4	224.2	16.0	30.0	162.4	459.0	529.9	921.6	10.8	(NA)	(NA)
MICHIGAN . . . . .	45	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN . . . . .	77	36	7.9	82.3	5.8	12.0	56.2	192.6	211.6	400.0	12.9	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	461	206	37.9	379.8	29.3	59.0	272.9	912.5	740.4	1 633.9	60.7	(NA)	(NA)
MINNESOTA . . . . .	75	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDWA . . . . .	137	74	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	38	14	2.0	18.0	1.5	3.0	12.8	59.1	47.8	103.7	2.0	(NA)	(NA)
NDRTH OAKDTA . . . . .	24	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SDUTH DAKDTA . . . . .	E1 10	5	.4	2.9	.3	.6	1.9	7.0	6.6	13.1	.2	(NA)	(NA)
NEBRASKA . . . . .	68	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS . . . . .	109	42	4.7	31.5	3.6	6.9	20.5	68.9	73.6	140.5	4.4	(NA)	(NA)
SDUTH REGION . . . . .	358	113	18.6	169.8	14.7	28.1	119.7	292.8	363.6	646.8	18.6	(NA)	(NA)
SDUTH ATLANTIC DIVISION. . . . .	E1 134	39	4.7	32.2	3.6	7.0	19.6	68.3	73.0	139.0	7.0	(NA)	(NA)
VIRGINIA . . . . .	11	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CAROLINA . . . . .	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SDUTH CAROLINA . . . . .	7	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	42	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLDRIDA . . . . .	E2 39	7	.5	5.0	.4	.8	2.8	9.4	12.0	21.4	.5	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	63	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY . . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE . . . . .	18	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA . . . . .	E1 21	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	17	10	.7	3.9	.5	1.0	2.5	9.3	10.0	19.1	.3	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	E1 161	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS . . . . .	E2 28	8	.7	4.2	.5	.9	2.7	7.5	9.4	16.8	.2	(NA)	(NA)
LOUISIANA . . . . .	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA . . . . .	27	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	E1 90	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	E1 285	65	5.1	42.1	3.8	7.4	27.1	92.1	79.9	168.5	3.7	(NA)	(NA)
MDUNTAIN DIVISION. . . . .	E1 87	22	1.8	14.0	1.4	2.6	8.9	28.0	23.6	49.4	1.8	(NA)	(NA)
IDAH. . . . .	E3 20	7	.4	2.7	.3	.6	1.9	4.9	5.3	9.5	.2	(NA)	(NA)
COLDRADO . . . . .	E1 33	10	.9	7.3	.7	1.3	4.9	15.3	11.4	25.9	.5	(NA)	(NA)
ARIZONA . . . . .	6	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH . . . . .	8	2	.2	1.2	.1	.2	.8	2.9	1.9	4.1	.4	(NA)	(NA)
PACIFIC DIVISION . . . . .	E1 198	43	3.2	28.1	2.4	4.8	18.2	64.0	56.4	119.1	1.9	(NA)	(NA)
WASHINGTON . . . . .	E2 26	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON . . . . .	23	8	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	E1 147	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3524-- LAWN AND GARDEN EQUIPMENT													
UNITED STATES. . . . .	110	86	20.7	165.5	15.1	29.3	108.3	453.2	652.2	1 059.1	47.6	(NA)	(NA)
NORTHEAST REGION . . . . .	6	4	.7	7.0	.4	.7	3.4	12.9	12.6	24.2	.6	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CENTRAL REGION . . . . .	62	55	14.6	123.0	10.4	20.3	81.4	323.1	471.2	767.5	30.7	(NA)	(NA)
EAST NDRTH CENTRAL DIVISION. . .	41	37	10.8	93.4	7.6	15.3	63.6	262.5	349.9	595.5	26.9	(NA)	(NA)
OHIO . . . . .	9	8	2.4	18.0	1.8	3.5	12.1	67.4	92.5	153.1	(D)	(NA)	(NA)
INDIANA . . . . .	E2 9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	10	10	1.2	11.6	.9	1.8	7.9	30.4	41.1	70.2	.8	(NA)	(NA)
MICHIGAN . . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN . . . . .	11	10	4.8	43.4	3.1	6.3	29.2	113.7	145.4	256.4	4.2	(NA)	(NA)
WEST NDRTH CENTRAL DIVISION. . .	21	18	3.8	29.6	2.8	5.0	17.8	60.6	121.3	172.0	3.8	(NA)	(NA)
MINNESOTA . . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDWA . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS . . . . .	4	4	.4	3.0	.3	.7	2.1	5.1	4.2	9.4	.2	(NA)	(NA)
SDUTH REGION . . . . .	32	21	5.0	33.4	3.9	7.7	21.8	111.7	161.6	254.9	16.2	(NA)	(NA)
SDUTH ATLANTIC DIVISION. . . . .	16	8	2.2	16.3	1.7	3.5	10.4	56.4	69.0	118.4	3.9	(NA)	(NA)
NORTH CAROLINA . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SDUTH CAROLINA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	5	5	1.9	11.5	1.5	3.0	7.6	41.8	66.4	97.5	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	10	6	.3	2.4	.3	.6	1.6	5.5	6.8	12.3	.1	(NA)	(NA)
PACIFIC DIVISION . . . . .	10	6	.3	2.4	.3	.6	1.6	5.5	6.8	12.3	.1	(NA)	(NA)
CALIFORNIA . . . . .	8	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes on next page.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 2A)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available.      (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis: 1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3522-- FARM MACHINERY													
United States.....	1,577	620	120.8	1,174.4	91.5	179.3	815.5	2,592.7	2,940.7	5,367.5	160.1	1,250.3	183.0
Northeast Region.....	102	27	5.6	57.9	3.5	7.2	31.4	120.1	122.1	237.2	3.8	47.6	23.3
Middle Atlantic Div....	78	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	44.5	22.5
New York.....	39	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.1	14.4
North Central Region.	822	402	88.1	883.2	66.9	131.4	623.3	2,013.6	2,241.4	4,125.7	119.5	965.5	122.4
East North Central Div.	368	187	48.6	495.0	36.5	71.2	348.9	1,103.5	1,451.5	2,454.6	56.7	572.5	64.7
Ohio.....	69	31	5.7	48.6	4.4	8.5	34.3	127.6	144.1	264.7	22.1	73.4	6.7
Indiana.....	63	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	77.6	9.4
Illinois.....	108	60	21.5	235.0	16.8	31.5	169.8	488.0	569.2	988.6	12.0	246.0	16.5
Michigan.....	47	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	58.9	6.4
Wisconsin.....	81	42	12.3	121.9	8.6	17.8	83.7	297.5	346.1	635.4	17.0	116.7	25.7
West North Central Div.	454	215	39.5	388.2	30.4	60.2	274.4	910.0	789.9	1,671.1	62.8	393.0	57.7
Minnesota.....	79	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	46.9	3.4
Iowa.....	130	71	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	228.1	47.1
Missouri.....	43	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.5	1.2
Nebraska.....	65	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	55.1	.8
Kansas.....	106	44	4.9	32.7	3.8	7.2	21.4	71.6	74.0	143.5	4.2	30.8	3.9
South Region.....	365	124	22.2	193.5	17.4	33.5	134.9	379.3	499.0	849.8	33.3	202.2	30.2
South Atlantic Div.....	141	42	6.0	41.7	4.6	9.0	25.7	106.8	123.0	220.7	9.7	61.4	11.4
Virginia.....	11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	.2
North Carolina.....	32	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.6	3.7
South Carolina.....	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.8	.1
Georgia.....	43	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27.2	6.3
East South Central Div.	69	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	111.7	10.2
Alabama.....	23	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.0	1.5
Mississippi.....	20	13	2.3	14.0	1.8	3.6	9.2	46.8	73.6	109.6	12.2	30.1	1.7
West South Central Div.	155	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.1	8.6
Oklahoma.....	23	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	1.2
West Region.....	288	67	4.9	39.8	3.8	7.2	25.9	79.6	78.2	154.8	3.5	35.0	7.1
Pacific Division.....	203	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.9	4.4
California.....	150	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.6	3.6

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

(See appendix, Explanation of Terms)

Item	Turbines and turbine generator sets (SIC 3511)	Internal combustion engines, n.e.c. (SIC 3519)	Farm machinery and equipment (SIC 3523)	Lawn and garden equipment (SIC 3524)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	92	91	9D	90
COVERAGE RATIO <sup>2</sup> . . . . .DO .	9D	86	94	82
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	75	179	1 547	110
WITH 1 TO 19 EMPLOYEES . . . . .DO .	29	70	984	24
WITH 20 TO 99 EMPLOYEES . . . . .DO .	15	44	407	4D
WITH 100 EMPLOYEES OR MORE . . . . .DO .	31	65	156	46
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	46.2	7D.0	1D4.6	2D.7
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS .	\$48.9	773.1	1 D45.4	165.5
PRODUCTION WORKERS:				
AVERAGE FOR YEAR . . . . .1,000 .	28.8	S2.3	79.9	15.1
MARCH . . . . .DO .	28.9	S0.8	76.3	16.1
MAY . . . . .DO .	28.8	S1.5	78.4	15.6
AUGUST . . . . .DO .	28.6	S2.2	80.3	13.5
NOVEMBER . . . . .DO .	28.8	S4.6	84.3	15.2
MAN-HOURS . . . . .MILLIONS .	S9.2	104.6	1S7.1	29.3
JANUARY-MARCH . . . . .DO .	15.4	25.7	39.6	7.9
APRIL-JUNE . . . . .DO .	15.2	25.6	39.6	7.7
JULY-SEPTEMBER . . . . .DO .	14.0	25.0	38.1	6.3
OCTOBER-DECEMBER . . . . .DO .	14.7	28.3	41.4	7.5
WAGES . . . . .MILLION DOLLARS .	299.1	S35.6	732.2	1D8.3
COST OF MATERIALS, ETC., TOTAL . . . . .DO .	968.6	1 751.2	2 400.1	652.2
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . DO .	860.5	1 630.8	2 221.3	624.5
COST OF RESALES . . . . .DO .	S9.7	89.6	124.2	13.4
FUELS CONSUMED . . . . .DO .	6.5	10.3	20.6	2.8
PURCHASED ELECTRIC ENERGY . . . . .DO .	8.5	14.4	16.8	3.2
CONTRACT WORK . . . . .DO .	33.4	6.1	16.3	8.3
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . .DO .	2 189.0	3 326.1	4 529.7	1 059.1
VALUE OF RESALES . . . . .DO .	62.9	154.9	169.1	16.5
VALUE ADDED BY MANUFACTURE . . . . .DO .	1 225.3	1 677.4	2 247.5	453.2
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL . . . . .DO .	S13.0	S73.3	820.4	228.9
FINISHED PRODUCTS . . . . .DO .	66.5	198.1	300.1	111.6
WORK IN PROCESS . . . . .DO .	338.5	267.5	294.3	49.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO .	108.0	107.7	226.1	69.0
END OF YEAR, TOTAL . . . . .DO .	S28.3	640.1	997.4	287.2
FINISHED PRODUCTS . . . . .DO .	66.2	205.7	341.6	134.3
WORK IN PROCESS . . . . .DO .	343.7	362.4	370.8	73.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO .	118.5	72.1	286.2	79.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . .DO .	95.3	97.4	123.7	49.2
NEW PLANT AND EQUIPMENT, TOTAL . . . . .DO .	93.5	94.6	115.8	47.6
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .DO .	16.5	28.2	27.2	13.9
NEW MACHINERY AND EQUIPMENT . . . . .DO .	77.0	66.4	88.6	33.7
USED PLANT AND EQUIPMENT . . . . .DO .	1.8	2.8	7.9	1.6

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3511-- TURBINES, TURBINE GENERATOR SETS											
ESTABLISHMENTS, TOTAL. . . . .	75	46.2	548.9	28.8	59.2	299.1	1 225.3	968.6	2 189.0	93.5	528.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E5	17	(Z)	.3	(Z)	(Z)	.2	1.0	.7	1.7	(Z)	.3
5 TO 9 EMPLOYEES . . . . . E0	8	(Z)	.4	(Z)	.1	.2	.8	.9	1.8	.1	.6
10 TO 19 EMPLOYEES . . . . .	4	.1	.7	(Z)	.1	.3	1.6	2.6	4.3	(Z)	3.1
20 TO 49 EMPLOYEES . . . . . E3	11	.4	4.3	.2	.4	2.0	9.3	8.1	16.8	13.9	3.6
50 TO 99 EMPLOYEES . . . . .	4	.3	3.0	.2	.5	2.1	3.5	9.6	13.6	(Z)	1.7
100 TO 249 EMPLOYEES . . . . . E1	10	1.5	14.5	1.1	2.3	8.3	19.0	18.5	35.7	(Z)	10.7
250 TO 499 EMPLOYEES . . . . .	3	1.2	14.8	.6	1.3	7.2	23.3	13.0	40.4	1.8	7.6
500 TO 999 EMPLOYEES . . . . .	5	3.9	41.4	2.7	5.3	24.0	92.1	59.0	144.0	10.8	38.4
1,000 TO 2,499 EMPLOYEES . . . . .	7	38.8	469.5	23.9	49.3	254.7	1 074.6	856.3	1 930.8	66.8	462.3
2,500 EMPLOYEES OR MORE. . . . .	6	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	16	.1	.6	(Z)	.1	.3	1.1	1.2	2.3	.1	.7
3519-- INTERNAL COMBUSTION ENGINES, NEC											
ESTABLISHMENTS, TOTAL. . . . .	179	70.0	773.1	52.3	104.6	535.6	1 677.4	1 751.2	3 326.1	94.6	640.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	36	.1	.7	.1	.1	.5	1.6	1.7	3.3	.1	.6
5 TO 9 EMPLOYEES . . . . . E9	17	.1	1.2	.1	.2	.8	2.5	2.1	4.6	3.5	.9
10 TO 19 EMPLOYEES . . . . . E1	17	.2	2.0	.2	.3	1.4	4.2	3.2	7.3	(Z)	.9
20 TO 49 EMPLOYEES . . . . .	27	.8	6.7	.6	1.1	4.3	12.9	10.6	23.1	1.5	4.1
50 TO 99 EMPLOYEES . . . . .	17	1.2	9.7	.9	1.9	6.7	24.2	27.5	50.8	1.1	13.0
100 TO 249 EMPLOYEES . . . . .	21	3.2	29.3	2.4	5.0	19.8	73.2	91.4	163.0	6.1	31.9
250 TO 499 EMPLOYEES . . . . .	12	4.1	38.8	3.1	6.1	25.9	83.1	95.8	178.7	2.1	38.6
500 TO 999 EMPLOYEES . . . . .	13	10.1	101.1	7.6	14.6	72.9	267.1	309.1	550.8	9.5	116.3
1,000 TO 2,499 EMPLOYEES . . . . .	14	20.5	220.3	15.1	30.5	155.9	388.7	465.1	852.1	14.6	207.3
2,500 EMPLOYEES OR MORE. . . . .	5	29.8	363.1	22.2	44.7	247.4	819.8	744.7	1 492.2	56.1	226.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	37	.1	1.0	.1	.2	.7	2.4	2.4	4.8	.2	1.0
3523-- FARM MACHINERY AND EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	1 547	104.6	1 045.4	79.9	157.1	732.2	2 247.5	2 400.1	4 529.7	115.8	997.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	551	.9	7.1	.9	1.3	4.8	19.0	21.3	40.3	1.1	9.8
5 TO 9 EMPLOYEES . . . . . E7	216	1.4	10.6	1.1	2.0	7.0	22.6	25.2	47.8	1.4	11.4
10 TO 19 EMPLOYEES . . . . . E2	217	3.0	22.3	2.3	4.4	14.7	52.8	47.1	98.5	7.1	20.7
20 TO 49 EMPLOYEES . . . . .	266	8.4	61.9	6.4	12.4	39.9	122.5	125.0	246.0	6.1	52.0
50 TO 99 EMPLOYEES . . . . . E1	141	10.1	76.8	7.6	14.6	48.4	153.8	176.5	325.5	7.5	76.0
100 TO 249 EMPLOYEES . . . . .	101	15.2	116.8	11.3	22.8	76.3	263.6	270.6	518.9	11.7	128.4
250 TO 499 EMPLOYEES . . . . .	21	7.0	63.3	5.1	10.4	40.5	163.5	220.8	378.3	5.4	79.8
500 TO 999 EMPLOYEES . . . . .	12	7.6	71.2	5.7	11.5	48.9	170.1	180.1	340.9	13.1	91.0
1,000 TO 2,499 EMPLOYEES . . . . .	15	22.2	260.7	16.2	33.1	180.1	582.0	567.8	1 099.6	10.7	276.1
2,500 EMPLOYEES OR MORE. . . . .	7	28.7	354.5	23.2	44.6	271.7	697.5	765.8	1 433.6	51.5	252.1
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	581	1.6	12.3	1.3	2.3	8.3	28.8	34.5	63.3	1.5	15.9
3524-- LAWN AND GARDEN EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	110	20.7	165.5	15.1	29.3	108.3	453.2	652.2	1 059.1	47.6	287.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	4	(Z)	.1	(Z)	(Z)	.1	(Z)	.3	.4	(Z)	.1
5 TO 9 EMPLOYEES . . . . .	5	(Z)	.4	(Z)	(Z)	.3	.8	1.3	2.0	(Z)	.4
10 TO 19 EMPLOYEES . . . . .	15	.2	1.6	.2	.3	.9	3.2	8.8	12.0	.2	2.2
20 TO 49 EMPLOYEES . . . . .	22	.7	5.6	.6	1.2	3.6	22.7	22.7	38.3	.4	12.4
50 TO 99 EMPLOYEES . . . . .	18	1.1	8.6	.9	1.6	5.4	15.4	30.7	47.5	.5	8.8
100 TO 249 EMPLOYEES . . . . .	17	2.6	18.1	2.1	3.7	11.6	43.1	74.9	110.6	3.0	29.3
250 TO 499 EMPLOYEES . . . . .	17	6.6	53.0	5.0	10.3	36.3	134.7	217.1	346.2	6.5	94.4
500 TO 999 EMPLOYEES . . . . .	11	9.3	78.1	6.3	12.0	50.1	233.2	296.2	508.2	37.1	139.6
1,000 TO 2,499 EMPLOYEES . . . . .	1	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records available to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3511	TURBINES AND TURBINE GENERATOR SETS										
	ENTIRE INDUSTRY . . . . .	75	46.2	548.9	28.8	59.2	299.1	1 225.3	968.6	2 189.0	93.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	63	39.8	480.1	24.8	50.5	261.9	1 121.0	889.0	2 000.9	82.5
35111	STEAM, GAS, HYDRAULIC GENERATOR SET UNITS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	22	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	17	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35112	STEAM, GAS, AND HYDRAULIC TURBINES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	24	11.0	126.4	6.5	13.9	65.0	229.3	154.1	385.1	9.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	12	2.3	26.9	1.5	3.1	15.8	62.2	38.6	99.0	2.6
3519	INTERNAL COMBUSTION ENGINES, NEC										
	ENTIRE INDUSTRY . . . . .	179	70.0	773.1	52.3	104.6	535.6	1 677.4	1 751.2	3 326.1	94.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	154	55.6	611.0	41.4	81.5	418.9	1 366.9	1 456.4	2 734.4	84.9
35191	GASOLINE ENGINES UNDER 11 HP, EXC. AIRCRAFT, AUTO (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35192	GASOLINE ENGINES, 11-OVER HP, EXC. AIRCRAFT, AUTO (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	10	4.3	45.4	2.8	5.5	27.4	87.8	105.6	200.4	2.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	.2	1.4	.1	.2	.8	3.5	3.7	6.5	(0)
35193	DIESEL ENGINES (EXCEPT FOR TRUCKS AND BUSES) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35194	DIESEL ENGINES (FOR TRUCKS AND BUSES) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	23.0	290.4	15.4	31.8	181.4	680.4	666.9	1 273.5	50.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35195	OUTBOARD MOTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	8.4	96.1	6.5	13.1	67.8	238.8	309.7	525.5	8.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35196	GAS ENGINES (EXCEPT GAS TURBINES) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35197	TANK AND CONVERTED INTERNAL COMBUSTION ENGINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35199	PARTS, ACCESSORIES FOR INTERNAL COMB. ENGINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	75	20.9	196.2	16.3	32.8	146.5	377.0	359.1	733.6	13.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	51	10.5	96.4	8.3	17.2	71.9	216.5	174.9	381.8	8.9
3523	FARM MACHINERY AND EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	1 547	104.6	1 045.4	79.9	157.1	732.2	2 247.5	2 400.1	4 529.7	115.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 464	86.3	861.9	65.7	129.7	600.0	1 924.0	2 009.7	3 830.8	94.4
35231	WHEEL TRACTORS, ATTACHMENTS (EXC. CONTRACTORS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	26.2	313.3	20.9	40.4	236.8	701.7	916.9	1 603.3	52.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	11	14.5	177.3	11.8	22.2	135.5	411.3	574.2	976.5	40.4
35232	FARM DAIRY MACHINES, SPRAYERS, DUSTERS, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	77	5.0	40.4	3.7	7.2	24.9	94.4	102.8	194.3	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	41	2.3	18.7	1.8	3.6	11.8	38.4	46.8	84.7	1.8
35233	PLANTING, SEEDING, AND FERTILIZING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	50	6.1	60.4	4.4	9.1	40.9	149.7	107.0	209.9	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	28	1.4	9.9	1.0	1.9	6.5	20.1	22.8	42.4	.8
35234	HARROWS, ROLLERS, PULVERIZERS, SIMILAR EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	60	5.4	45.0	4.0	8.1	28.9	85.5	94.2	176.2	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	29	2.1	15.1	1.6	3.1	9.6	32.8	31.7	64.6	1.3
35235	HARVESTING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	61	20.4	228.5	15.9	31.7	166.4	474.0	446.9	893.8	13.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	31	5.5	62.5	4.2	8.4	44.7	161.8	153.0	306.1	3.5
35236	HAYING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	5.3	56.9	3.4	7.2	32.4	108.7	106.3	220.1	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	8	.2	1.4	.2	.4	1.0	1.7	3.6	5.5	.2
35237	PLOWS AND LISTERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	13	.7	5.7	.5	1.1	3.9	15.8	18.4	32.6	.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35238	ALL OTHER FARM MACHINERY AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	303	18.9	148.7	14.1	27.7	93.8	330.1	328.8	645.6	19.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	228	12.1	92.4	8.8	17.3	56.2	207.9	223.0	425.6	10.8
35239	PARTS FOR FARM MACH., EQUIP., SOLD SEPARATELY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	74	10.4	101.4	8.2	16.2	73.5	182.2	177.6	348.5	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	40	4.1	39.4	3.2	6.7	29.4	77.2	63.0	133.9	1.6
3524	LAWN AND GARDEN EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	110	20.7	165.5	15.1	29.3	108.3	453.2	652.2	1 059.1	47.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	99	17.3	142.0	12.9	25.0	91.1	391.9	575.7	921.0	45.2
35242	GARDEN TRACTORS AND MOTOR TILLERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	23	7.4	66.2	4.8	9.5	42.5	161.9	205.7	367.4	5.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	14	2.6	23.8	1.7	3.4	13.1	61.7	63.6	122.1	2.0
35247	LAWN MOWERS AND SNOW BLOWERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	69	9.3	72.2	7.0	13.5	46.5	175.9	327.2	480.2	9.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	59	7.4	55.6	5.8	11.3	37.4	153.6	291.9	427.7	9.1
35249	PARTS FOR LAWN, GARDEN EQUIP., SOLD SEPARATELY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	4.0	27.0	3.3	6.2	19.3	115.3	119.3	211.4	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	9	2.4	16.8	2.0	3.7	11.5	87.5	91.9	156.1	(0)

(0) Withheld to avoid disclosing figures for individual companies.

**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3511	Turbines and turbine generator sets.....1972..	2,189.0	1,877.1	170.6	141.3	92	2,079.7	1,877.1	202.6	90
	1967..	1,043.2	829.9	168.6	44.7	83	1,059.3	829.9	229.4	78
3519	Internal combustion engines, n.e.c.....1972..	3,326.1	2,871.9	270.3	183.9	91	3,353.4	2,871.9	481.5	86
	1967..	2,093.2	1,813.4	213.0	66.8	89	2,187.6	1,813.4	374.2	83
3523	Farm machinery and equipment.....1972..	4,529.7	3,906.2	430.0	193.5	90	4,143.5	3,906.2	237.3	94
3524	Lawn and garden equipment.....1972..	1,059.1	931.9	105.9	21.3	90	1,143.4	931.9	211.5	82

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Turbines and turbine generator sets (SIC 3511)	Internal combustion engines, n.e.c. (SIC 3519)	Farm machinery and equipment (SIC 3523)	Lawn and garden equipment (SIC 3524)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	2,189.0	3,326.1	4,529.7	1,059.1	(X)
3511-	Turbines and turbine generator sets.....	2,079.7	1,877.1	(under 2)	-	-	(over 2)
35111	Steam, gas, and hydraulic generator set units and parts.....	1,521.6	(over 2)	(under 2)	-	-	(over 2)
35112	Steam gas, and hydraulic turbines and parts.....	541.5	(200-500)	-	-	-	(over 2)
35110	Steam engines and turbines, n.s.k.....	16.6	15.7	-	-	-	0.9
3519-	Internal combustion engines, n.e.c.....	3,353.4	(under 2)	2,871.9	29.0	(under 2)	450.4
35191	Gasoline engines under 11 horsepower, except aircraft, automobile, etc.....	326.8	-	(over 2)	(under 2)	(under 2)	13.9
35192	Gasoline engines, 11 horsepower and over, except aircraft, automobile, etc.....	164.0	-	126.3	9.0	-	28.7
35193	Diesel engines, except for trucks and buses.....	604.0	(under 2)	350.0	(over 2)	-	245.2
35194	Diesel engines, for trucks and buses.....	634.6	-	627.2	-	-	7.4
35195	Outboard motors.....	( <sup>1</sup> )	-	( <sup>1</sup> )	-	-	( <sup>1</sup> )
35196	Gas engines, except gas turbines.....	35.2	-	(over 2)	(under 2)	-	1.8
35197	Tank and converted internal combustion engines....	<sup>1</sup> 425.9	-	<sup>1</sup> 412.1	-	-	<sup>1</sup> 13.8
35199	Parts and accessories for internal combustion engines.....	1,144.9	(under 2)	993.0	(over 2)	(under 2)	139.4
35190	Internal combustion, engines, n.s.k.....	18.0	-	17.7	-	-	0.3

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Turbines and turbine generator sets (SIC 3511)	Internal combustion engines, n.e.c. (SIC 3519)	Farm machinery and equipment (SIC 3523)	Lawn and garden equipment (SIC 3524)	Other industries
	Shipments and miscellaneous receipts--Continued						
3523-	Farm machinery and equipment.....	4,143.5	-	(under 2)	3,906.2	(over 2)	220.0
35231	Wheel tractors and attachments, except contractors	1,215.2	-	-	1,163.1	(2-5)	(over 2)
35232	Farm dairy machines, sprayers, and dusters, etc....	157.8	-	-	142.2	(under 2)	(over 2)
35233	Planting, seeding, and fertilizing machinery.....	172.0	-	-	164.4	-	7.6
35234	Harrows, rollers, pulverizers, stalk cutters, and similar equipment.....	191.8	-	-	182.5	(2-5)	(over 2)
35235	Harvesting machinery.....	580.4	-	-	571.4	-	9.0
35236	Haying machinery.....	184.1	-	-	184.0	-	0.1
35237	Plows and listers.....	85.4	-	-	77.2	0.6	7.6
35238	All other farm machinery and equipment.....	610.8	-	-	563.8	2.8	44.2
35239	Parts for farm machinery and equipment, sold separately.....	741.4	-	(under 2)	657.0	(over 2)	76.0
35230	Farm machinery and equipment, n.s.k.....	204.6	-	-	200.6	0.1	3.9
3524-	Lawn and garden equipment.....	1,143.4	-	(under 2)	79.2	931.9	(over 2)
35242	Garden tractors and motor tillers.....	321.1	-	-	60.8	255.9	4.4
35247	Lawnmowers and snow blowers.....	550.2	-	(under 2)	14.0	442.3	(over 2)
35249	Parts for lawn and garden equipment, for sale separately.....	269.6	-	-	4.4	231.2	34.0
35240	Lawn and garden equipment, n.s.k.....	2.5	-	-	-	2.5	-
	Other product shipments by 4-digit product group:						
2394	Canvas and related products.....	(X)	-	-	(over 2)	-	(X)
2653	Corrugated and solid fiber boxes.....	(X)	-	-	-	(over 2)	(X)
3079	Miscellaneous plastics products.....	(X)	-	(over 2)	0.2	(under 2)	(X)
3321	Gray iron foundries.....	(X)	-	4.8	(20-50)	(under 2)	(X)
3361	Aluminum foundries.....	(X)	-	(over 2)	(2-5)	-	(X)
3425	Handsaws and saw blades.....	(X)	-	-	-	(over 2)	(X)
3432	Plumbing fittings and brass goods.....	(X)	-	-	-	(over 2)	(X)
3441	Fabricated structural metal.....	(X)	(over 2)	-	0.5	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	(20-50)	2.4	2.6	-	(X)
3451	Screw machine products.....	(X)	(under 2)	(over 2)	-	-	(X)
3452	Bolts, nuts, rivets, and washers.....	(X)	-	(under 2)	(5-10)	-	(X)
3462	Iron and steel forgings.....	(X)	-	-	(over 2)	-	(X)
3493	Steel springs, except wire.....	(X)	-	(over 2)	(under 2)	-	(X)
3494	Valves and pipe fittings.....	(X)	(over 2)	(under 2)	(under 2)	-	(X)
3495	Wire springs.....	(X)	-	-	(over 2)	(under 2)	(X)
3498	Fabricated pipe and fittings.....	(X)	-	-	(over 2)	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	(under 2)	6.8	-	(X)
3531	Construction machinery.....	(X)	-	(over 2)	126.9	4.1	(X)
3537	Industrial trucks and tractors.....	(X)	-	-	(2-5)	-	(X)
3551	Food products machinery.....	(X)	-	-	4.9	-	(X)
3553	Woodworking machinery.....	(X)	-	-	-	(over 2)	(X)
3561	Pumps and pumping equipment.....	(X)	(5-10)	(under 2)	3.9	-	(X)
3563	Air and gas compressors.....	(X)	(over 2)	(5-10)	(under 2)	-	(X)
3566	Speed changers, drives, and gears.....	(X)	(5-10)	-	-	-	(X)
3569	General industrial machinery, n.e.c.....	(X)	-	(under 2)	(10-20)	-	(X)
3585	Refrigeration and heating equipment.....	(X)	(under 2)	(10-20)	(2-5)	-	(X)
3586	Measuring and dispensing pumps.....	(X)	-	-	(over 2)	-	(X)
3613	Switchgear and switchboard apparatus.....	(X)	(over 2)	-	-	-	(X)
3621	Motors and generators.....	(X)	(20-50)	84.8	(under 2)	-	(X)
3622	Industrial controls.....	(X)	(over 2)	-	-	-	(X)
3648	Lighting equipment, n.e.c.....	(X)	-	-	(over 2)	-	(X)
3694	Engine electrical equipment.....	(X)	-	(under 2)	(over 2)	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(50-100)	8.9	-	(X)
3724	Aircraft engines and engine parts.....	(X)	10.2	7.3	(under 2)	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	(under 2)	(2-5)	-	(X)
3751	Motorcycles, bicycles, and parts.....	(X)	-	(under 2)	(under 2)	9.3	(X)
3769	Space vehicle equipment, n.e.c.....	(X)	(over 2)	(under 2)	-	-	(X)
3799	Transportation equipment, n.e.c.....	(X)	-	(over 2)	18.8	(20-50)	(X)
	Miscellaneous receipts.....	(X)	141.3	183.9	193.5	21.3	(X)
93000 00	Contract work.....	(X)	3.0	11.2	7.4	2.5	(X)
99980 13	Sales of scrap and refuse.....	(X)	0.6	3.3	6.8	0.6	(X)
99980 31	Receipt for installation or construction.....	(X)	6.0	1.7	(2)	-	(X)
99980 41	Receipts for research and development work.....	(X)	(Z)	-	0.2	-	(X)
99980 61	Receipts for repair work.....	(X)	54.0	6.3	0.9	(Z)	(X)
99980 98	Other miscellaneous receipts.....	(X)	14.8	6.5	9.1	1.7	(X)
99989 00	Resales.....	(X)	62.9	154.9	169.1	16.5	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued	
3511	3443 Fabricated platework (boiler shops).....	3.6	3523	3321 Gray iron foundries.....	(5-10)
	3489 Ordnance and accessories, n.e.c.....	(over 2)		3441 Fabricated structural metal.....	4.8
	3563 Air and gas compressors.....	(over 2)		3443 Fabricated platework (boiler shops).....	2.4
	3567 Industrial furnaces and ovens.....	(over 2)		3444 Sheet metalwork.....	2.5
	3621 Motors and generators.....	(10-20)		3448 Prefabricated metal buildings.....	3.5
	3724 Aircraft engines and engine parts.....	(50-100)		3462 Iron and steel forgings.....	(over 2)
	3728 Aircraft equipment, n.e.c.....	(over 2)	3531	Construction machinery.....	(50-100)
	3731 Shipbuilding and repairing.....	5.0	3535	Conveyors and conveying equipment.....	2.5
	3743 Railroad equipment.....	(2-5)	3537	Industrial trucks and tractors.....	(2-5)
3519	3443 Fabricated platework (boiler shops).....	(5-10)	3549	Metalworking machinery, n.e.c.....	(over 2)
	3531 Construction machinery.....	(100-200)	3559	Special industry machinery, n.e.c.....	9.2
	3532 Mining machinery.....	(over 2)	3561	Pumps and pumping equipment.....	4.6
	3553 Woodworking machinery.....	5.0	3569	General industrial machinery, n.e.c.....	(2-5)
	3563 Air and gas compressors.....	69.5	3585	Refrigeration and heating equipment.....	(2-5)
	3621 Motors and generators.....	(10-20)	3711	Motor vehicles and car bodies.....	(10-20)
	3679 Electronic components, n.e.c.....	(over 2)	3714	Motor vehicle parts and accessories.....	20.1
	3711 Motor vehicles and car bodies.....	(5-10)	3792	Travel trailers and campers.....	(5-10)
	3714 Motor vehicle parts and accessories.....	73.2	3524	3465 Automotive stampings.....	(over 2)
	3724 Aircraft engines and engine parts.....	45.2		3494 Valves and pipe fittings.....	(2-5)
	3743 Railroad equipment.....	(20-50)		3546 Power driven handtools.....	39.4
				3634 Electric housewares and fans.....	(over 2)
				3714 Motor vehicle parts and accessories.....	(2-5)
				3751 Motorcycles, bicycles, and parts.....	(20-50)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (2) Less than half of the unit of measurement shown.

<sup>1</sup>Product class 35195 is combined with product class 35197, to avoid disclosing data of individual companies.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers					
		1972			1967		
		Quantity	Total	Value	Quantity	Total	Value
		(units)		(million dollars)	(units)		(million dollars)
3511- --	TURBINES AND TURBINE GENERATOR SETS, TOTAL.....	(X)	(X)	2,079.7	(X)	(X)	1,059.3
35111 --	Steam, Gas, and Hydraulic Turbine Generator Set Units and Parts..	(X)	(X)	1,521.6	(X)	(X)	714.5
	Steam turbine generator sets:						
35111 13	Under 33,000 kilowatts.....						
35111 19	33,000 to 49,999 kilowatts.....						
35111 21	50,000 to 99,999 kilowatts.....						
35111 24	100,000 to 199,999 kilowatts.....						
35111 35	200,000 kilowatts and over.....						
35111 41	Hydraulic turbine generator sets (all sizes).....	(X)	(X)	1,521.6	(X)	(X)	714.5
35111 50	Gas turbine generator sets:						
	As reported in census of manufactures <sup>1 2</sup> .....						
	As reported on Census Annual Form MA-36H <sup>1 2</sup> .....						
35111 51	Parts for generator set units (steam, gas and hydraulic).....						
35111 00	Steam, gas, and hydraulic turbine generator set units and parts, n.s.k.....						
35112 --	Steam, Gas, and Hydraulic Turbines and Parts.....	(X)	(X)	541.5	(X)	(X)	344.7
	Mechanical drive steam turbines and gear turbines, including the value of the gears:						
35112 03	Marine and Navy.....	118	870.7	58.1	390	2,018.8	69.5
	Number shipped by horsepower capacity (rated or normal):						
35112 05	Under 50 horsepower.....						
35112 06	50 to 499 horsepower.....						
35112 07	500 to 999 horsepower.....	68	(X)	(X)	321	(X)	(X)
35112 08	1,000 to 9,999 horsepower.....						
35112 09	10,000 horsepower and over.....	50	(X)	(X)	69	(X)	(X)

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers					
		1972			1967		
		Quantity	Total	Value	Quantity	Total	Value
		(units)		(million dollars)	(units)		(million dollars)
3511- --	TURBINES AND TURBINE GENERATOR SETS--Continued		Horsepower capacity			Horsepower capacity	
35112 --	Steam, Gas, and Hydraulic Turbines and Parts--Continued		(1,000 hp.)			(1,000 hp.)	
	Mechanical drive steam turbines and gear turbines, including the value of the gears--Continued						
35112 13	Land.....	3,488	2,878.8	79.5	5,445	2,155.3	43.2
	Number shipped by horsepower capacity (rated or normal):						
35112 15	Under 50 horsepower.....	1,159	(X)	(X)	1,570	(X)	(X)
35112 16	50 to 499 horsepower.....	413	(X)	(X)	3,310	(X)	(X)
35122 17	500 to 999 horsepower.....	1,717	(X)	(X)	339	(X)	(X)
35112 18	1,000 to 9,999 horsepower.....	123	(X)	(X)	226	(X)	(X)
35112 19	10,000 horsepower and over.....	76	(X)	(X)			
35112 61	Hydraulic turbines (all sizes).....	(D)	(D)	(D)	51	(NA)	30.4
35112 71	Parts and accessories for hydraulic turbines.....	(X)	(X)	5.8	(X)	(X)	13.3
35112 72	Parts and accessories for steam engines and steam turbines.....	(X)	(X)	49.8	(X)	(X)	27.5
	Gas turbines (except aircraft):						
35112 75	Under 10,000 horsepower.....	(D)	(D)	(D)	3,447	(NA)	116.7
35112 77	10,000 horsepower and over.....	81	(NA)	147.4			
35112 81	Parts and accessories for gas turbines, except aircraft.....	(X)	(X)	44.6	(X)	(X)	43.9
35112 00	Steam, gas, and hydraulic turbines and parts, n.s.k.....	(X)	(X)	15.7	(X)	(X)	(NA)
35110 00	Turbines and turbine generator sets, n.s.k., for establishments with 10 employees or more. (See note.).....	(X)	(X)	14.3	(X)	(X)	(NA)
35110 02	Turbines and turbine generator sets, n.s.k., for establishments with less than 10 employees. (See note.).....	(X)	(X)	2.3	(X)	(X)	(NA)
		Unit of measure	Total product shipments including interplant transfers				
			1972		1967		
			Quantity	Value	Quantity	Value	
				(million dollars)		(million dollars)	
3519- --	INTERNAL COMBUSTION ENGINES, N.E.C., TOTAL.....		(X)	3,353.4	(X)	2,187.6	
	Gasoline engines under 11 horsepower, except outboard, aircraft, automobile, truck, bus, and tank:						
35191 00	As reported in the census of manufactures <sup>1</sup> .....		(X)	326.8	(X)	215.5	
	As reported in Current Industrial Reports series MA-35L <sup>1 3</sup> .....	1,000 units...	<sup>4</sup> 11,009	<sup>4</sup> 527.9	<sup>4</sup> 8,378.6	<sup>4</sup> 419.8	
	Gasoline engines, 11 horsepower and over, except outboard, aircraft, automobile, truck, bus, and tank:						
35192 00	As reported in the census of manufactures <sup>1</sup> .....		(X)	164.0	(X)	171.4	
	As reported in Current Industrial Reports series MA-35L <sup>1</sup> .....	1,000 units...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	
	Diesel engines (except for truck and bus): <sup>5</sup>						
35193 00	As reported in the census of manufactures <sup>1</sup> .....		(X)	604.0	(X)	447.9	
	As reported in Current Industrial Reports series MA-35L <sup>1</sup> .....	1,000 units...	259.3	600.3	163.3	439.7	
	Diesel engines (for truck and bus): <sup>5</sup>						
35194 00	As reported in the census of manufactures <sup>1</sup> .....		(X)	634.6	(X)	233.2	
	As reported in Current Industrial Reports series MA-35L <sup>1</sup> .....	1,000 units...	180.0	632.3	84.7	233.7	
	Gas engines (except turbines):						
35196 00	As reported in the census of manufactures <sup>1</sup> .....		(X)	35.2	(X)	22.6	
	As reported in Current Industrial Reports series MA-35L <sup>1</sup> .....	1,000 units...	11.1	36.4	10.2	21.9	
35195 00	Outboard motors.....		}	(X)	425.9	(X)	267.1
35197 00	Tank and converted internal-combustion engines <sup>6</sup> .....						
35199 15	Parts and accessories for internal-combustion engines (except aircraft and automotive engines and gas turbines.).....		(X)	1,144.9	(X)	816.0	
35190 00	Internal-combustion engines, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	13.2	(X)	12.5	
35190 02	Internal-combustion engines, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.8	(X)	1.4	

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3523- --	FARM MACHINERY AND EQUIPMENT, TOTAL.....	4,143.5	<sup>7</sup> 3,256.8
	Wheel Tractors and Attachments (Except Contractors' Off-Highway Type, Garden Tractors, and Motor Tillers): <sup>1</sup>		
35231 00	As reported in the census of manufactures.....	1,215.2	1,040.2
	As reported in Current Industrial Reports series MA-35A.....	1,171.8	1,019.6
	Farm Dairy Machines, Sprayers and Dusters, Farm Elevators, and Farm Blowers: <sup>1</sup>		
35232 10	As reported in the census of manufactures.....	157.8	( <sup>7</sup> )
35232 30	As reported in Current Industrial Reports series MA-35A.....	<sup>8</sup> 152.5	<sup>9</sup> 120.1
35232 50	Planting, Seeding, and Fertilizing Machinery: <sup>1</sup>		
35233 00	As reported in the census of manufactures.....	172.0	183.0
	As reported in Current Industrial Reports series MA-35A.....	166.7	151.2
	Harrows, Rollers, Pulverizers, Stalk Cutters, and Similar Equipment: <sup>1</sup>		
35234 00	As reported in the census of manufactures.....	191.8	<sup>10</sup> 281.1
	As reported in Current Industrial Reports series MA-35A.....	172.9	163.2
35235 00	Harvesting Machinery: <sup>1</sup>		
	As reported in the census of manufactures.....	580.4	580.7
	As reported in Current Industrial Reports series MA-35A.....	543.6	538.2
35236 00	Haying Machinery: <sup>1</sup>		
	As reported in the census of manufactures.....	184.1	148.8
	As reported in Current Industrial Reports series MA-35A.....	175.5	144.9
	Plows and Listers: <sup>1</sup>		
35237 00	As reported in the census of manufactures.....	85.4	( <sup>10</sup> )
	As reported in Current Industrial Reports series MA-35A.....	82.4	97.8
35238 --	All Other Farm Machinery and Equipment <sup>1</sup> .....	610.8	458.0
35238 10			
35238 20	As reported in the census of manufactures.....	338.9	291.9
35238 30	As reported in Current Industrial Reports series MA-35A.....	350.9	310.2
35238 40			
35238 50			
35238 81	Farm wagons, trucks, and other farm transportation equipment and parts: <sup>1</sup>		
	As reported in the census of manufactures.....	95.2	64.4
	As reported in Current Industrial Reports series MA-35A.....	98.4	70.3
35238 61	Windmill heads and windmill towers.....	( <sup>11</sup> )	
	Self-propelled irrigation systems:		
35238 93	Center pivot.....	37.4	90.8
35238 95	All other systems using 100-foot flexible hose feeder line and over.....	6.9	
35238 98	Other farm machines, equipment, and attachments.....	<sup>11</sup> 117.3	
35238 00	All other farm machinery and equipment, n.s.k.....	15.1	10.9
35239 --	Parts for Farm Machinery and Equipment, Sold Separately.....	741.4	565.0
35239 41			
35239 51	As reported in the census of manufactures <sup>1</sup> .....	247.8	175.1
35239 61	As reported in Current Industrial Reports series MA-35A <sup>1</sup> .....	<sup>8</sup> 237.9	164.4
35239 71			
35239 98	Parts for wheel tractors: <sup>1</sup>		
35239 25	As reported in the census of manufactures.....	179.7	169.2
	As reported in Current Industrial Reports series MA-35T.....	169.2	178.2
	Parts sold to plants producing farm equipment (original equipment):		
35239 19	Parts for farm machinery, except for wheel tractors, garden tractors and motor tillers, hedge trimmers and sheers (power) and lawnmowers and snow blowers.....	96.5	<sup>12</sup> 111.4
35239 21	Parts for wheel tractors.....	168.0	97.9
	Operator cabs (metal) for farm equipment:		
35239 83	Farm tractors.....	28.7	(NA)
35239 85	All other, including windrowers, combines, and power sprayers.....	1.9	(NA)
35239 00	Parts for farm machinery and equipment, sold separately, n.s.k.....	18.8	11.4
35230 00	Farm machinery and equipment, n.s.k., for establishments with 10 employees or more. (See note.)....	<sup>13</sup> 139.2	<sup>13</sup> 130.0
35230 02	Farm machinery and equipment, n.s.k., for establishments with less than 10 employees. (See note.)...	<sup>13</sup> 65.4	<sup>13</sup> 26.6

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3524- --	LAWN AND GARDEN EQUIPMENT, TOTAL.....		(X)	(X)	1,143.4	(X)	(X)	(NA)
	Garden Tractors and Motor Tillers: <sup>1</sup>							
35242 00	As reported in the census of manufactures.....		(X)	(X)	321.1	(X)	(X)	196.8
	As reported in Current Industrial Reports series MA-35A.....		(X)	(X)	291.4	(X)	(X)	195.4
35247 --	Lawnmowers and Snow Blowers.....		(X)	(X)	550.2	(X)	(X)	388.5
35247 11	Hand (reel type) lawn mowers.....	1,000 units	193.0	191.5	6.8	(NA)	(NA)	7.7
	Power lawnmowers:							
	Reel type:							
35247 23	Nonriding.....	do.	79.4	81.7	9.1	268.2	266.7	18.9
35247 25	Integral riding—with fixed or floating mower.....	do.	217.2	235.2	37.3	(NA)	(NA)	6.6
	Rotary type:							
35247 41	Hand traction.....	do.	3,414.1	3,473.7	193.6	3,179.4	3,125.4	145.3
	Power traction:							
35247 53	Nonriding.....	do.	827.5	843.8	80.8	723.4	712.8	52.5
35247 55	Integral riding—with fixed or floating mower.....	do.	416.4	447.8	105.9	359.3	366.2	73.2
35247 61	Snow blowers and snow throwers—single purpose residential only, excluding large commercial type units.....	do.	305.6	353.5	52.8	235.9	241.7	34.1
35247 81	Other, including gang-cutting units, sickle-bar mowers shipped as complete units, lawn edgers, and special cutting units.....	do.	385.4	381.8	27.2	(NA)	(NA)	19.3
35247 91	Attachments for lawnmowers, snowblowers, and similar equipment..		(X)	(X)	28.3	(X)	(X)	19.3
35247 00	Lawnmowers and snow blowers, n.s.k.....		(X)	(X)	8.4	(X)	(X)	11.6
35249 --	Parts for lawn and Garden Equipment, for Sale Separately.....		(X)	(X)	269.6	(X)	(X)	<sup>14</sup> 111.4
35249 11	Hedge trimmers and shears, power.....	1,000 units	(NA)	(NA)	43.3	(NA)	700.5	10.3
	Parts sold to plants producing farm equipment (original equipment):							
35249 13	Parts for garden tractors and motor tillers.....		(X)	(X)	24.8	(X)	(X)	(14)
35249 15	Parts for hedge trimmers and shears, power.....		(X)	(X)	(15)			
35249 19	Parts for lawnmowers and snow blowers.....		(X)	(X)	141.0			
	Parts for replacement and repair:							
35249 31	Parts for lawnmowers and snow blowers.....		(X)	(X)	33.2	(X)	(X)	25.2
35249 78	Parts for garden tractors and motor tillers: <sup>1</sup>							
	As reported in the census of manufactures.....		(X)	(X)	24.5	(X)	(X)	(14)
	As reported in Current Industrial Reports series MA-35A.....		16.5	(X)	<sup>15</sup> 19.6	(X)	(X)	7.8
35249 81	Parts for hedge trimmers and shears, power.....		(X)	(X)	2.8	(X)	(X)	(14)
35240 00	Lawn and garden equipment, n.s.k. for establishments with 10 employees or more. (See note.).....		(X)	(X)	2.5	(X)	(X)	-

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The data present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>The values reported for 1972 are as follows: Census of Manufactures, \$364.4 million (quantity not available); Annual form MA-36H, \$353.3 million for 649 units. Comparable data for 1967 are not available.

<sup>3</sup>Data reported on annual form MA-35L include basic engines (short block engines, primarily automotive type) shipped for conversion to marine or other nonautomotive uses. Such automotive gasoline engines are included with automotive parts and accessories (product class 37141) in the census of manufactures. Engines after conversion to nonautomotive uses are included in product class 35197.

<sup>4</sup>Product codes 35191 00, gasoline engines under 11 hp, etc., and 35192 00, gasoline engines, 11 hp and over, etc., are combined to avoid disclosing data for individual companies.

<sup>5</sup>Dual-fuel engines are included with diesel engines.

<sup>6</sup>Includes engines converted from purchased engines or from engines received from another plant of the same company.

<sup>7</sup>In 1967, data for product code 35232 10, Farm Dairy Machines, Sprayers and Dusters, Farm Elevators, and Farm Blowers, also included garden tractors and motor tillers. Data for garden tractors and motor tillers are product code 35242 00 in 1972 and amount to \$321.1 million. In 1967, this figure was \$196.8 million. The combined figure in 1967 was \$339.8 million.

<sup>8</sup>For 1972, product codes 35232 10, 35232 30, and 35232 50, Farm Dairy Machines, Sprayers and Dusters, Farm Elevators, and Farm Blowers, includes data for parts for farm elevators, product code 35239 98.

<sup>9</sup>For 1967, MA-35A total also includes parts for farm dairy machines and equipment.

<sup>10</sup>For 1967, product codes 35234 00, Harrows, Rollers, Pulverizers, Stalk Cutters, and Similar Equipment, and product code 35237 00, Plows and Lists, were not shown separately.

<sup>11</sup>In 1972, data for product code 35238 61, Windmill heads and windmill towers, are included with product code 35238 98, Other farm machines, equipment, and attachments.

<sup>12</sup>In 1967, data also include the value of parts for garden tractors, motor tillers, power hedge trimmers, and shears. Data for garden tractors, motor tillers, power hedge trimmers, and shears are included in industry 3524 in 1972.

<sup>13</sup>Also includes data for lawn and garden equipment, not specified by kind.

<sup>14</sup>In 1967, data for the products included in this product class were not collected separately. The total also includes the value of parts for farm machinery and wheel tractors. Therefore, the figure for 1967 is somewhat overstated.

<sup>15</sup>Data for 1972 for product code 35249 15, Parts for power hedge trimmers and shears (original equipment), are combined with product code 35249 81, Parts for power hedge trimmers and shears (for replacement and repair).

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
1972				
(As reported in Current Industrial Report series MA-35A)				
35231 -- 35239 pt.	WHEEL TRACTORS AND PARTS AND ATTACHMENTS, TOTAL.....		(X)	1,341,037
	Complete tractors, except garden.....	Number of units.....	196,988	1,141,033
35231 04	9 to 34 P.T.O. hp.....	..do.....	16,913	38,024
35231 05	35 to 39 P.T.O. hp.....	..do.....	31,837	93,646
35231 06	40 to 49 P.T.O. hp.....	..do.....	16,954	73,730
35231 09	50 to 59 P.T.O. hp.....	..do.....	26,615	118,119
35231 11	60 to 69 P.T.O. hp.....	..do.....	18,402	93,293
35231 12	70 to 79 P.T.O. hp.....	..do.....	5,159	34,069
35231 13	80 to 89 P.T.O. hp.....	..do.....	7,994	59,184
35231 14	90 to 99 P.T.O. hp.....	..do.....	18,452	128,762
35231 16	100 to 119 P.T.O. hp.....	..do.....	25,136	202,205
35231 17	120 P.T.O. hp. and over.....	..do.....	29,526	300,001
35231 21	Attachments <sup>1</sup> .....		(X)	30,873
35239 23	Parts <sup>1</sup> .....		(X)	169,201
35233 -- 35239 pt.	PLANTING, SEEDING, AND FERTILIZING MACHINERY, TOTAL.....		(X)	196,517
	Corn planters, and corn and cotton planters:			
	Pull type:			
35233 15	Under 6-row.....	Number of units.....		
35233 17	6-row and larger.....	..do.....		
35233 21	Mounted.....	..do.....		
35237 20	Listers and lister planting attachment units.....	..do.....	34,224	27,205
35233 35	Potato planters, pull type or mounted.....	..do.....		
35233 41	Transplanters, pull type or mounted.....	..do.....		
35233 44	Grain drills, including legum planters.....		(X)	( <sup>2</sup> )
35233 49	Broadcast seeders (end-gate, mounted and drawn).....	Number of units.....	21,744	1,758
	Fertilizer distributors, pull type or mounted:			
	Dry, including lime spreaders:			
35233 50	Gravity distribution (5 feet and over).....	..do.....	5,861	2,169
	Centrifugal distribution:			
35233 55	Pull type.....	..do.....	5,747	9,306
35233 56	Mounted.....	..do.....	1,643	3,641
35233 52	Liquid.....	..do.....	5,714	6,353
35233 54	Anhydrous ammonia.....	..do.....	7,320	7,481
	Manure spreaders, conveyor type (ASAE rating):			
	Power-take-off:			
35233 60	Under 130-bushel capacity.....	..do.....	3,402	1,972
35233 61	130- and under 200-bushel capacity.....	..do.....	9,941	8,778
35233 62	200-bushel capacity and over.....	..do.....	7,890	10,809
35233 63	Ground drive.....		(X)	( <sup>2</sup> )
	Manure spreaders, tank-type:			
35233 67	Open tank (flail unloading).....	Number of units.....		
35233 68	Closed tank (for liquids only).....	..do.....	7,728	17,338
35233 69	Manure pumps, liquid.....	..do.....	(S)	(S)
35233 70	Front and rear mounted loaders (farm type), manure and general utility (except beet and sugar cane loaders).....	..do.....	21,093	16,837
35233 77	Row crop unit planters.....	Number of rows.....	45,179	9,318
35233 81	Other planting, seeding, and fertilizing machinery.....	Number of units.....	(X)	<sup>2</sup> 26,295
35233 84	Attachments.....		(X)	17,421
35239 91	Parts (replacement units only).....		(X)	29,836
35234 pt. 35239 pt.	HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS, AND SIMILAR EQUIPMENT.....		(X)	188,505
	Harrows:			
35234 01	Spike-tooth harrow sections.....	Number of units.....	71,390	3,645
35234 02	Spring-tooth and tine-tooth harrow sections.....	..do.....	19,407	3,526
	Disc harrows:			
	Single (2-gang):			
35234 04	Pull type.....	..do.....	1,830	382
35234 05	Mounted.....	..do.....	2,748	1,164
	Tandem (4-gang):			
	Pull type:			
	Wheel-type:			
35234 06	Folding.....	..do.....	19,871	26,085
35234 07	Nonfolding.....	..do.....		
35234 08	Other.....	..do.....	33,931	26,654
35234 09	Mounted.....	..do.....	32,458	5,838
	Offset:			
	Pull type:			
35234 11	Wheel type and other.....	..do.....	10,507	18,143
35234 12	Mounted.....	..do.....	523	225

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
			1972	
	(As reported in Current Industrial Reports series MA-35A)--Con.			
35234 pt. 35239 pt.	HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS, AND SIMILAR EQUIPMENT--Continued			
35234 15	Combination rollers and harrow mulchers.....	Number of units.....	10,130	6,006
	Stalk shredders and cutters or rotary mowers (power-take-off):			
	Flail type (without spout):			
35234 16	Under 90-inch cutting width.....	..do.....	14,255	4,275
35234 17	90-inch cutting width and over.....	..do.....	2,719	3,361
	Horizontal blade type:			
35234 18	66-inches cutting width and under.....	..do.....	67,884	20,811
35234 19	Over 66-inches up to 100-inches cutting width.....	..do.....	23,954	12,537
35234 20	Over 100-inches cutting width.....	..do.....	4,292	6,434
	Blade terracers or scrapers (farm size):			
35234 22	Wheel type.....	..do.....	3,501	3,298
35234 29	Rear mounted blade type.....	..do.....	69,951	4,901
35234 23	Other.....	..do.....	29,210	4,683
35234 24	Land levelers.....	..do.....	6,464	3,115
35234 25	Wheel type folding drawbars for harrow and rotary hoe sections..	..do.....		
35234 21	Field type rotary tillers, power operated.....	..do.....	10,356	1,519
35234 30	Row crop power-driven rotary tilling attachments.....	..do.....	-	-
35234 26	Other rollers, pulverizers, and similar equipment.....	..do.....	24,711	8,023
35234 27	Attachments.....	..do.....	(X)	8,274
35239 92	Parts (replacement units only).....	..do.....	(X)	15,606
35237 35239 pt.	PLOWS, TOTAL.....		(X)	98,810
	Moldboard plows:			
	Pull type, 1-way:			
35237 30	1-, 2-, and 3-bottom.....	Number of units.....	176	185
35237 33	4-bottom.....	..do.....		
35237 34	5-bottom.....	..do.....		
35237 35	6-bottom.....	..do.....	1,373	2,048
35237 40	7-bottom and larger.....	..do.....		
	Mounted, 1-way:			
35237 38	1- and 2-bottom.....	..do.....	7,888	1,773
35237 39	3-bottom.....	..do.....	4,503	1,766
35237 42	4-bottom and larger.....	..do.....	5,137	2,883
	Semimounted, 1-way:			
35237 41	3-bottom.....	..do.....	608	437
35237 43	4-bottom.....	..do.....	6,774	6,380
35237 44	5-bottom.....	..do.....	10,682	13,635
35237 48	6-bottom.....	..do.....		
35237 49	7-bottom and larger.....	..do.....	3,567	4,771
	Pull type and mounted, 2-way:			
35237 45	1-, 2-, 3-bottom, and larger.....	..do.....	4,206	3,642
35237 50	Disc plows, 1-way.....	..do.....		
35237 51	Disc plows, 2-way, pull type and mounted.....	..do.....	1,137	552
	1-way disc (harrow plows, cylinder plows, Great Plains plows, Wheatland plows, etc.):			
35237 53	Width of cut under 10 feet.....	..do.....	121	54
35237 54	Width of cut 10 feet and over.....	..do.....	389	458
35237 55	Subsoilers (deep tillage).....	..do.....	2,514	839
35237 56	Terracing and ditching plows.....	..do.....	2,112	768
	Chisel plows, deep tillage (chisel or sweep type):			
35237 64	Pull type.....	..do.....	10,043	11,674
35237 65	Mounted.....	..do.....	8,253	5,704
35237 58	Other plows, except snow plows.....	..do.....	853	1,181
35237 63	Middlebusters and disc bedders, except planting attachments....	..do.....	5,149	2,237
35237 61	Attachments, except planting attachments for listers (coulters, jointers, root cutters, subsoilers, fertilizer distributors, etc.).....	..do.....	(X)	7,398
35237 62	Plowshares.....	1,000 lb.....	28,634	13,991
36239 93	Parts for plows, except plowshares (replacement units only)....	..do.....	(X)	16,434
35235 -- 35239 pt.	HARVESTING MACHINERY, TOTAL.....		(X)	643,869
35235 11	Combines (harvester-threshers), all types, except peanut combines	Number of units.....	21,172	220,583
	Grain heads for combines:			
35235 22	Under 14-foot header size.....	..do.....	10,292	10,418
35235 23	14-foot and under 16-foot header size.....	..do.....	4,668	4,592
35235 24	16-foot and under 20-foot header size.....	..do.....	20,563	8,557
35235 25	20-foot header size and over.....	..do.....	2,529	2,755
	Corn heads:			
35235 26	2-row.....	..do.....	3,783	5,948
35235 27	3-row.....	..do.....	2,026	5,074
35235 29	4-row.....	..do.....	11,522	38,537
35235 30	6-row and larger.....	..do.....	3,311	14,884

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
1972				
(As reported in Current Industrial Reports series MA-35A)--Con.				
35235 -- 35239 pt.	HARVESTING MACHINERY--Continued			
	Windrowers or swathers (draper type for grain):			
35235 33	Pull type.....	Number of units.....	984	3,506
35235 35	Self-propelled.....	..do.....		
	Corn pickers:			
35235 41	1-row (all types).....	..do.....	2,833	4,563
35235 43	2-row and over (all types).....	..do.....	4,744	13,782
35235 53	Potato harvesters.....	..do.....	628	6,797
35235 56	Beet harvesters, all row sizes.....	..do.....	792	4,365
35235 57	Peanut diggers, shakers, and windrowers.....	..do.....	2,594	2,664
35235 59	Peanut combines.....	..do.....	2,218	9,275
	Field forage harvesters:			
	Shear bar type (basic machines):			
35235 61	Self-propelled.....	..do.....	1,248	13,529
35235 62	Pull type.....	..do.....	14,349	28,523
	Attachments for shear bar-type forage harvesters:			
35235 66	Pick-up hay unit.....	..do.....	10,392	5,408
35235 67	Cutter bar hay unit.....	..do.....	1,336	1,311
	Row crop units:			
35235 68	1-row.....	..do.....	5,332	2,943
35235 69	2-row.....	..do.....	10,392	10,367
35235 72	3-row and larger.....	..do.....	459	669
35235 70	Flail-type (horizontal knives or vertical free-swinging knives or hammers), including discharge spouts.....	..do.....	4,651	6,109
35235 77	Cotton strippers, all types.....	..do.....	2,266	7,315
35235 82	Other harvesting machinery, including picker-shellers, field shelling attachments for corn pickers, cotton pickers, and potato diggers.....		(X)	77,523
35239 83	Attachments for harvesting machinery.....		(X)	33,599
35239 94	Parts (for replacement units only).....		(X)	100,273
35236 -- 35239 pt.	HAYING MACHINERY, TOTAL.....		(X)	190,239
	Mowers, cutter bar-type, excluding combination mower-conditioners:			
35236 11	Pull type.....	Number of units.....	3,209	1,515
35236 12	Semimounted.....	..do.....	( <sup>3</sup> )	( <sup>3</sup> )
	Mounted:			
35236 14	Rear.....	..do.....	12,187	4,338
35236 16	Side.....	..do.....	2,950	1,068
	Mower-conditioners:			
35236 17	Self-propelled type.....	..do.....	21,204	43,310
35236 19	Drawn type.....	..do.....		
	Windrowers, self-propelled with conditioner:			
35236 22	Auger type.....	..do.....	8,464	24,992
35236 24	Draper type.....	..do.....		
	Rakes, side delivery:			
35236 27	Cylinder type.....	..do.....	11,615	6,497
35236 30	Finger wheel type.....	..do.....	2,511	1,294
35236 41	Hay stacking attachment for loaders.....	..do.....	( <sup>3</sup> )	( <sup>3</sup> )
	Hay balers:			
	Wire:			
35236 51	Engine driven.....	..do.....	701	3,246
35236 53	Tractor power-take-off.....	..do.....	3,583	7,887
	Twine:			
35236 55	Engine driven.....	..do.....	525	2,520
35236 57	Tractor power-take-off.....	..do.....	23,180	43,421
35236 60	Hay conditioners, all types, excluding combination mower conditioners.....	..do.....	558	440
35236 64	Bale throwing attachments for hay balers.....	..do.....	8,161	3,425
35236 65	Hay bale loaders (field type).....	..do.....	3,245	1,177
35236 81	Other haying machinery.....	..do.....	<sup>3</sup> 16,072	<sup>3</sup> 27,216
35236 83	Other attachments.....		(X)	3,149
35239 95	Parts (replacement units only).....		(X)	14,744
35232 pt. 35239 pt.	FARM DAIRY MACHINES AND EQUIPMENT, TOTAL.....		(X)	60,543
	Mechanical installations:			
35232 03	Vacuum pumping outfits for milking machines.....	Number of units.....	14,043	5,648
35232 04	Milking machines, complete (suspended and floor type bucket, single and double units).....	..do.....	6,173	678
35232 08	Pipeline milking units, complete.....	..do.....	51,706	14,485
35232 15	Other farm dairy machines and equipment.....		(X)	8,995
35232 16	Attachments.....		(X)	17,230
35239 41	Parts (replacement units only).....		(X)	13,507

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
1972				
(As reported in Current Industrial Reports series MA-35A)--Con.				
35232 pt. 35239 pt.	SPRAYERS AND DUSTERS, TOTAL.....		(X)	61,049
35232 18	Power sprayers, field and row crop types only:	Number of units.....	1,906	5,179
	Tractor mounted:			
	Piston pump type:			
35232 19	Rear-mounted tank.....	..do.....	3,448	1,100
35232 21	Other than rear-mounted tank.....	..do.....		
	Nonpiston pump type:			
35232 22	Rear-mounted tank.....	..do.....	8,972	2,963
35232 23	Other than rear-mounted tank.....	..do.....	7,622	2,047
	Other than tractor mounted:			
	Piston pump type:			
	Power-take-off driven:			
35232 24	Over 4 and under 11 gallons per minute.....	..do.....	719	1,010
35232 25	11 gallons per minute and over.....	..do.....		
	Engine driven:			
35232 26	Over 4 and under 11 gallons per minute.....	..do.....	1,002	632
35232 27	11 gallons per minute and over.....	..do.....	72	183
35232 28	Nonpiston pump type.....	..do.....	1,563	918
35232 29	Other power sprayers, over 4 gallons per minute.....	..do.....	(X)	( <sup>4</sup> )
	Power sprayers, other than row crop and field types (over 4 gallons per minute):	Number of units.....	1,353	371
35232 31	Power-take-off driven.....	..do.....	1,342	2,238
35232 32	Engine driven.....	..do.....		
	Air-carried-type power sprayers (field, row crop, and orchard types):			
35232 33	Complete units.....	..do.....	7,994	7,388
35232 34	Attachment type.....	..do.....	91	35
	Foggers and mist sprayers, portable:			
35232 35	Foggers (thermal), under 16 gallons per hour output.....	..do.....	14,073	871
35232 36	Mist sprayers (nonthermal), under 16 gallons per hour output..	..do.....	45,769	1,942
35232 37	Hand-pulled and garden type, 4 gallons per minute and under:			
35232 38	16-gallons tank capacity and under.....	..do.....	(X)	( <sup>4</sup> )
	Tank capacity over 16 gallons.....	..do.....		
	Hand sprayers, agricultural:	Number of units.....	3,195,539	2,191
35232 39	Under 1 gallon.....	..do.....	1,787,382	13,674
35232 41	1 gallon and over:	..do.....		
35232 42	Compressed air or gas.....	..do.....	37,609	785
	Knapsack (liquid pump).....	..do.....		
35232 44	Hose-end sprayers.....	..do.....	1,149,223	2,116
35232 45	Flame sprayers.....	..do.....		
35232 52	Power dusters, all types.....	..do.....	1,565	276
	Hand dusters:			
35232 53	Crank or knapsack.....	..do.....	5,872	148
35232 54	Plunger.....	..do.....	257,147	412
35232 56	All other sprayers and dusters (including sprayer pumps).....	..do.....	(X)	<sup>4</sup> 6,130
35232 55	Attachments for sprayers and dusters.....	..do.....	(X)	1,248
35239 51	Parts (replacement units only).....	..do.....	(X)	7,192
35232 pt. 35239 pt.	FARM ELEVATORS AND BLOWERS, TOTAL.....		(X)	51,979
	Farm elevators, portable:			
	Single chain:			
35232 61	Bale type only.....	Number of units.....	10,498	1,369
35232 62	All other.....	..do.....	3,243	1,156
35232 63	Double chain.....	..do.....	14,748	7,068
	Auger type:			
35232 64	Under 6-inches diameter.....	..do.....	40,620	2,104
35232 65	6-inches diameter.....	..do.....	56,019	7,865
35232 66	Over 6-inches diameter.....	..do.....	34,386	8,793
35232 68	Farm elevators, stationary.....	..do.....	3,953	4,018
35232 69	Forage blowers, including combination grain and forage blowers..	..do.....	12,910	15,330
35232 71	Other farm elevators.....	..do.....		
35232 72	Other farm blowers.....	..do.....		
35232 73	Attachments for farm elevators.....	..do.....	(X)	3,938
35232 74	Attachments for farm blowers.....	..do.....		
35239 96	Parts for farm elevators (replacement units only).....	..do.....	(X)	338
35239 97	Parts for grain and forage blowers (replacement units only).....	..do.....		

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
1972				
(As reported in Current Industrial Reports series MA-35A)--Con.				
35238 pt. 35239 pt. }	CULTIVATORS AND WEEDERS, TOTAL.....		(X)	76,920
	Corn and cotton type cultivators:			
	Mounted:			
	1-row and 2-row:			
35238 01	Front mounted.....	Number of units.....	6,909	655
35238 02	Rear mounted.....	..do.....		
	4-row:			
35238 05	Front mounted.....	..do.....	990	725
35238 06	Rear mounted.....	..do.....	10,664	7,130
	6-row and larger:			
35238 08	Front mounted.....	..do.....	617	735
35238 09	Rear mounted.....	..do.....	( <sup>8</sup> )	( <sup>8</sup> )
35238 11	Beet, bean, and vegetable cultivators, drawn or mounted.....	..do.....	127	65
	Rotary cultivators:			
35238 12	Ground driven.....	..do.....	37,148	16,669
35238 13	Power driven.....	..do.....	4,100	1,214
	Field cultivators:			
	Pull type:			
35238 03	Folding type.....	..do.....	3,777	3,261
35238 04	Non-folding type.....	..do.....	6,354	4,166
35238 14	Mounted.....	..do.....	6,635	5,096
35238 15	Tool bars (basic units only) pull type and mounted.....	..do.....	13,510	2,043
35238 17	Rod weeders, pull type or mounted.....	..do.....	1,976	2,145
35238 18	Other cultivators and weeders.....	..do.....	(X)	<sup>9</sup> 9,779
35238 19	Attachments for cultivators and weeders.....	..do.....	(X)	5,085
35239 86	Parts (replacement units only).....	..do.....	(X)	18,152
35238 pt. 35239 pt. }	MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE, TOTAL...		(X)	110,935
35238 22	Corn shellers, power, regardless of capacity.....	..do.....	(X)	( <sup>6</sup> )
	Feed grinders and crushers, power (farm size):			
35238 24	Hammer mills, with hammers only.....	Number of units.....	1,219	649
35238 25	Burr mills, with grinding plates only.....	..do.....	3,872	3,051
35238 26	Combination roughage mills.....	..do.....		
35238 27	Roller mills.....	..do.....		
	Feed mixers (farm size):			
35238 28	Stationary.....	..do.....	385	474
35238 29	Portable.....	..do.....	632	2,620
	Combination grinder-mixers:			
35238 31	Stationary.....	..do.....	20,661	35,689
35238 32	Portable.....	..do.....		
35238 33	Tobacco curers.....	..do.....	7,404	5,304
	Driers (grain, hay and seed):			
	Heated air crop driers:			
	Batch type: <sup>7</sup>			
35238 34	Power take-off operated.....	..do.....	4,511	12,972
35238 35	Electric motor operated.....	..do.....		
35238 36	Continuous-flow type <sup>8</sup> .....	..do.....	1,520	9,393
35238 43	Heated-air units <sup>9</sup> .....	..do.....	10,966	5,606
	Crop drying fans (over 15,000 c.f.m. at approximately one inch pressure):			
35238 37	24-inches and under diameter.....	..do.....	7,653	2,515
35238 38	Over 24-inches diameter.....	..do.....	319	163
35238 39	Other machines for preparing crops for market or for use.....	..do.....	(X)	<sup>6</sup> 24,151
35238 44	Supplemental heaters (without fans).....	..do.....	(X)	3,392
35238 41	Attachments.....	..do.....	(X)	4,956
35239 82	Parts (replacement units only).....	..do.....	(X)	
35238 pt. 35239 pt. }	FARM POULTRY EQUIPMENT, TOTAL.....		(X)	62,859
	Incubators (quantity represents egg capacity, in thousands):			
35238 41	All chicken egg incubators, regardless of capacity.....	Number of units.....	20,051	3,685
35238 42	All other incubators, regardless of size, for all types of eggs except chicken eggs but including turkey eggs.....	..do.....	2,558	633
	Brooders, floor and hanging:			
35238 48	Gas (5,000 B.t.u. or more).....	..do.....	110,466	3,377
35238 49	Other (electric, oil, coal, and wood).....	..do.....	36,927	138
35238 51	Brooders, battery (starting and growing).....	Number of decks.....	8,979	237
	Nests and cages:			
35238 52	Hole and colony type (total linear footage).....	Number of units.....	421,154	782
35238 53	Standard laying cages (total linear footage).....	..do.....	2,186,363	4,726
35238 54	Laying cages mechanized for feeding and/or egg gathering.....	..do.....	(NA)	5,789
35238 58	Turkey feeders (bulk or range).....	..do.....	(X)	( <sup>10</sup> )

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports series MA-35A)--Con.		1972	
35238 pt. 35239 pt.)	FARM POULTRY EQUIPMENT--Continued			
35238 55	Poultry feeders, except turkey feeders:			
35238 56	Trough, except mechanical (total linear footage).....	Number of units.....	(NA)	824
35238 57	Hanging.....	..do.....	143,818	255
35238 59	Mechanical (total linear footage of conveyor):			
	Floor type.....	..do.....	2,326,211	7,119
	Cage type.....	..do.....	3,025,237	4,128
35238 60	Powered feed carts.....		(X)	( <sup>10</sup> )
35238 69	Poultry waterers, except turkey waterers:			
35238 62	Trough (chicken type).....	Number of units.....	(NA)	3,956
35238 63	Automatic fountains.....	..do.....	(NA)	362
35238 61	All other waterers.....	..do.....	(NA)	2,369
35238 64	Turkey waterers.....	..do.....	34,403	81
35238 66	Egg washers.....	..do.....	262	1,620
35238 65	Egg graders, mechanized.....	..do.....	117	414
35238 67	Other farm poultry equipment.....		(X)	<sup>10</sup> 18,002
35238 68	Attachments for farm poultry equipment.....		(X)	1,284
35239 61	Parts (replacement units only).....		(X)	3,078
35238 pt. 35239 pt.)	HOG EQUIPMENT, TOTAL.....		(X)	25,990
35230 11	Feeding equipment:			
35230 13	Wet or dry power units.....		(X)	( <sup>11</sup> )
35230 15	Pig feeders, under 100 lb. live weight.....	Number of units.....	348,331	1,571
35230 17	Hog feeders, over 100 lb. live weight:			
35230 19	4 feed openings or less, except rotary.....	..do.....	76,312	627
	Over 4 feed openings, except rotary.....	..do.....	107,089	10,114
	All rotary feeders (no doors or through dividers).....	..do.....	29,910	972
35230 21	Handling equipment:			
35230 23	Hog farrowing crate and stall.....	..do.....	67,375	2,803
	Hog pens.....	Number of feet.....	(NA)	549
35230 25	Watering equipment:			
35230 27	Hog waterer, heated (pressure type).....	Number of units.....	49,604	2,165
35230 29	Hog waterer, not heated (pressure and gravity type).....	..do.....	247,509	1,654
	Gravity storage hot waterer, 20-gallons capacity or more.....	..do.....	32,364	1,386
35230 35	Other hog equipment.....	..do.....	(X)	<sup>11</sup> 3,208
35230 39	Attachments for hog equipment.....		(X)	257
35239 71	Parts (replacement units only).....		(X)	684
35239 83	Operator cabs (metal) for farm equipment:			
35239 85	Operator cabs (metal) for farm equipment farm tractors.....	Number of units.....	24,495	14,564
	All other, including windrowers, combines, power sprayers, etc.	..do.....		
35238 pt. 35239 pt.)	OTHER BARN AND BARNYARD EQUIPMENT, TOTAL.....		(X)	109,447
	Cattle and dairy barn equipment:			
	Feeding equipment:			
	Silo unloaders, forage and grain:			
	Tower, including sealed storage unloaders:			
35238 71	Top unloaders.....	Number of units.....	18,353	26,180
35238 72	Bottom discharge with chain conveyor.....	..do.....		
35238 73	Bottom discharge with auger conveyor.....	..do.....	2,555	2,788
35238 74	Horizontal.....		(X)	( <sup>12</sup> )
35238 75	Electric powered bunk feeders (number of drive units)....	Number of units.....	12,756	10,068
35238 76	Calf feeder, hopper type.....	..do.....	35,687	4,153
35238 77	Cattle feeder, hopper type.....	..do.....	10,568	2,202
35238 70	Handling equipment:			
35238 78	Dairy, barn, and gutter cleaners.....	..do.....	7,215	10,488
35238 79	Dairy cattle stall for use with stanchions.....	..do.....	46,353	1,208
35238 80	Chain tie stalls, all types.....	..do.....	51,473	1,097
35238 81	Dairy free stalls (for loose housing barns), new.....	..do.....	129,964	1,334
35238 82	Pens.....	Number of feet.....	199,997	1,008
35238 83	Milking parlor stalls.....	Number of units.....	32,198	4,687
35238 84	Stanchions, swing type.....	..do.....	68,037	708
35238 85	Watering equipment:			
35238 86	Combination cattle and hog waterer, heated (pressure type)....	..do.....	16,349	1,536
35238 87	Cattle waterers, heated (pressure type).....	..do.....	43,587	3,151
35238 88	Dairy cattle water bowls, inside.....	..do.....	227,705	1,721
35238 89	Stock watering tanks.....	..do.....	228,397	7,319
	Livestock water heaters.....	..do.....	68,038	1,811
35238 91	Other barn and barnyard equipment.....		(X)	<sup>12</sup> 19,057
35238 92	Attachments.....		(X)	520
35239 87	Parts (replacement units only).....		(X)	8,411

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
1972				
(As reported in Current Industrial Reports series MA-35A)--Con.				
35230 <sup>13</sup> pt. 35239 pt.	FARM WAGONS AND OTHER FARM TRANSPORTATION EQUIPMENT, TOTAL.....	.....	(X)	103,122
35230 51	Wagons (chassis only) and trailer gears:	Number of units.....	77,398	18,495
	2-wheel.....	.....		
35230 53	4-wheel:	.....do.....		
35230 55	Under 4-ton capacity.....	.....do.....		
	4-ton capacity and over.....	.....do.....		
	Boxes and racks for mounting on wagons, trucks, and trailer gears:			
35230 61	Manual unloading or dump.....	.....do.....	16,957	6,515
	Power unloading:			
35230 65	Grain type (cannot handle forage).....	.....do.....	2,023	1,222
	Forage type:			
35230 67	Rear unloading only.....	.....do.....	716	660
35230 69	Side unloading (with or without rear unloading).....	.....do.....	25,921	25,818
35230 63	Gravity unloading (grain type only).....	.....do.....	39,955	8,438
	Boxes with integral running gear:			
35230 71	Grain type (cannot handle forage).....	.....do.....	(X)	5,027
35230 73	Forage type.....	.....do.....		
35230 79	Other farm transportation equipment.....	.....do.....	(X)	27,155
35230 81	Attachments.....	.....do.....	(X)	5,118
35239 89	Parts (replacement units only).....	.....do.....	(X)	4,674
1967				
35321 -- 35239 pt.	WHEEL TRACTORS AND PARTS AND ATTACHMENTS, TOTAL.....	.....	(X)	1,198,529
	Complete Tractors.....	Number of units.....	241,096	986,168
35231 04	9 to 34 P.T.O. hp.....	.....do.....	15,878	38,186
35231 05	35 to 39 P.T.O. hp.....	.....do.....	36,825	96,476
35231 06	40 to 49 P.T.O. hp.....	.....do.....	25,939	77,252
35231 09	50 to 59 P.T.O. hp.....	.....do.....	32,378	114,499
35231 11	60 to 69 P.T.O. hp.....	.....do.....	26,978	110,174
35231 12	70 to 79 P.T.O. hp.....	.....do.....	31,461	146,039
35231 13	80 to 89 P.T.O. hp.....	.....do.....		
35231 14	90 to 99 P.T.O. hp.....	.....do.....		
35231 16	100 to 119 P.T.O. hp.....	.....do.....		
35231 17	120 P.T.O. hp. and over.....	.....do.....	7,025	83,100
	Attachments and Parts: <sup>1</sup>			
35231 21	Attachments.....	.....do.....	(X)	33,424
35239 23	Parts.....	.....do.....	(X)	178,937
35233 -- 35239 pt.	PLANTING, SEEDING, AND FERTILIZING MACHINERY, TOTAL.....	.....	(X)	169,001
	Corn planters:			
35233 11, 13, 15	Drawn 2-, 4-, 6-row, and larger.....	Number of units.....	55,054	27,987
35233 17	Mounted.....	.....do.....		
35233 20	Corn and cotton planters, drawn and mounted.....	.....do.....		
35233 30	Listers and lister planting attachment units.....	.....do.....		
35233 35	Potato planters, drawn and mounted.....	.....do.....	2,707	2,054
35233 41	Transplanters, drawn and mounted.....	.....do.....	11,382	2,124
35233 44	Grain drills, including legume planters.....	.....do.....	(D)	(D)
35233 49	Broadcast seeders (end-gate, mounted and drawn).....	.....do.....	22,762	1,039
	Fertilizer distributors, drawn and mounted:			
	Dry (including lime spreaders):			
	Gravity distribution:			
35233 50	Drawn (5 feet and over).....	.....do.....	7,936	3,787
35233 53	Mounted (5 feet and over).....	.....do.....	1,631	446
35233 51	Centrifugal distribution.....	.....do.....	10,418	9,113
35233 52	Liquid.....	.....do.....	3,311	2,373
35233 54	Anhydrous ammonia.....	.....do.....	(D)	(D)
	Manure spreaders, conveyor type (ASAE rating):			
	Power take-off (single beater):			
35233 55	Under 130-bushel capacity.....	.....do.....	6,479	2,890
35233 56	130- and under 200-bushel capacity.....	.....do.....	16,468	10,573
35233 59	200-bushel capacity and over.....	.....do.....		
	Power take-off (multiple beater):			
35233 64	Under 130-bushel capacity.....	.....do.....	4,419	3,951
35233 65	130- and under 200-bushel capacity.....	.....do.....		
35233 66	200-bushel capacity and over.....	.....do.....		
35233 63	Ground drive.....	.....do.....	2,641	1,179

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
			1967	
	(As reported in Current Industrial Reports series MA-35A)--Con.			
35233 -- 35239 pt.	PLANTING, SEEDING, AND FERTILIZING MACHINERY--Continued			
	Manure spreaders, tank-type:			
35233 67	Open tank (flail unloading).....	Number of units.....	7,991	11,326
35233 68	Closed tank (for liquids only).....	..do.....		
35233 70	Front and rear mounted loaders (farm type), manure and general utility (except beet and sugar cane loaders).....	..do.....	35,078	16,240
35233 77	Row crop unit planter attachments (quantity in number of rows).	Number of rows.....	37,803	4,722
35233 81	Other planting, seeding, and fertilizing machinery.....	.....	(X)	8,385
35233 84	Attachments.....	.....	(X)	21,978
35239 30	Parts (replacement units only).....	.....	(X)	17,827
35234 pt. 35239 pt.	HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS, AND SIMILAR EQUIPMENT, TOTAL.....	.....	(X)	179,625
	Harrows:			
35234 01	Spike-tooth harrow sections.....	Number of units.....	147,767	4,930
35234 02	Spring-tooth harrow sections.....	..do.....	64,253	5,491
35234 03	Tine-tooth harrow sections.....	..do.....	27,219	957
	Disc harrows:			
	Single (2-gang):			
35234 04	Drawn.....	..do.....	2,080	376
35234 05	Mounted.....	..do.....	5,005	2,214
	Tandem (4-gang):			
	Drawn:			
	Wheel-type:			
35234 06	Under 15-feet width of cut.....	..do.....	54,982	36,402
35234 07	15-feet width of cut and over.....	..do.....	18,925	19,536
35234 08	Other.....	..do.....	11,179	2,446
35234 09	Mounted.....	..do.....	12,348	3,356
	Offset:			
	Drawn:			
35234 10	Wheel-type.....	..do.....	9,105	10,346
35234 11	Other.....	..do.....	2,903	5,130
35234 12	Mounted.....	..do.....	4,052	2,099
35234 13	Brush and bog.....	..do.....	381	68
35234 14	Other harrows.....	..do.....	4,044	639
35234 15	Soil pulverizers, packers, and land rollers.....	..do.....	15,498	7,231
	Stalk shredders and cutters or rotary mowers (power take-off):			
	Flail type (without spout):			
35234 16	Under 90-inch cutting width.....	..do.....	7,244	2,557
35234 17	90-inch cutting width and over.....	..do.....	5,455	5,422
	Horizontal blade type:			
35234 18	66-inches cutting width and under.....	..do.....	49,956	13,633
35234 19	Over 66 inches up to 100 inches cutting width.....	..do.....	15,773	7,827
35234 20	Over 100 inches cutting width.....	..do.....	3,208	3,194
	Blade terracers or scrapers (farm size):			
35234 22	Wheel type.....	..do.....	2,542	3,642
35234 29	Rear mounted blade type.....	..do.....	40,232	2,876
35234 23	Other.....	..do.....	26,691	3,039
34534 24	Land levelers.....	..do.....	6,727	3,676
34534 25	Wheel type folding drawbars for harrow and rotary hoe sections.	..do.....	21,109	2,139
35234 21	Field type rotary tillers, power operated.....	..do.....	6,773	4,680
35234 26	Other rollers, pulverizers, and similar equipment.....	..do.....		
35234 27	Attachments.....	.....	(X)	9,266
35234 30	Row crop power driven rotary tilling attachments.....	.....		
35239 36	Parts (replacement units only).....	.....	(X)	16,453
35237 pt. 35239 pt.	PLOWS, TOTAL.....	.....	(X)	111,540
	Moldboard plows:			
	Tractor drawn, 1 way:			
35237 31	1 bottom and 2 bottom.....	Number of units.....	1,225	75
35237 32	3 bottom.....	..do.....	1,396	588
35237 33	4 bottom.....	..do.....	1,723	1,018
35237 34	5 bottom.....	..do.....	2,571	2,846
35237 35	6 bottom.....	..do.....	610	648
35237 40	7 bottom and larger.....	..do.....		
	Mounted, 1 way:			
35237 38	1 bottom and 2 bottom.....	..do.....	8,912	1,283
35237 39	3 bottom.....	..do.....	16,219	4,237
25237 42	4 bottom and larger.....	..do.....	7,054	3,199

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
			1967	
	(As reported in Current Industrial Reports series MA-35A)--Con.			
35237 pt. 35239 pt.	PLOWS--Continued			
	Moldboard plows--Continued			
	Semimounted, 1 way:			
35237 41	3 bottom.....	Number of units.....	17,676	10,859
35237 43	4 bottom.....	..do.....		
35237 44	5 bottom.....	..do.....		
35237 45	6 bottom and larger.....	..do.....		
	Drawn and mounted, 2 way:			
35237 46	1 bottom and 2 bottom.....	..do.....	634	196
35237 47	3 bottom and larger.....	..do.....	6,259	3,460
	Disc plows, 1-way:			
35237 49	Drawn.....	..do.....	2,565	1,519
35237 50	Mounted.....	..do.....		
	Disc plows, reversible, 2-way:			
35237 51	Drawn and mounted.....	..do.....	(D)	(D)
	1-way disc plows or tillers:			
35237 53	Width of cut under 10 feet.....	..do.....	887	356
35237 54	Width of cut 10 feet and over.....	..do.....	989	852
35237 55	Subsoilers (deep tillage).....	..do.....	2,966	252
35237 56	Terracing and ditching plows.....	..do.....	2,552	710
35237 57	Chisel plows or tillers (chisel or sweep type).....	..do.....	17,777	10,783
35237 58	Other plows, except snow plows.....	..do.....	3,277	804
	Middlebusters and bedders (except planting attachments):			
35237 59	Drawn.....	..do.....	(D)	(D)
35237 60	Mounted.....	..do.....	3,800	1,364
35237 61	Attachments, except planting attachments for listers (coulters, jointers, root cutters, subsoilers, fertilizer distributors, etc.).....	..do.....	(X)	12,834
35237 62	Plowshares (quantity in thousands of pounds).....	Number of units.....	38,768	12,898
35237 40	Parts for plows and listers, except plowshares (replacement units only).....	..do.....	(X)	13,783
35235 --	HARVESTING MACHINERY, TOTAL.....	..do.....	(X)	597,531
	Combines (harvester-threshers):			
35235 10	Pull-type (all sizes).....	Number of units.....	3,044	11,348
	Self-propelled (basic units without heads):			
35235 18	Under 14 feet header size.....	..do.....	7,865	34,231
35235 19	14 feet and under 16 feet header size.....	..do.....	8,736	43,414
35235 20	16 feet and under 20 feet header size.....	..do.....	8,002	49,423
35235 21	20 feet and over header size.....	..do.....	14,356	104,215
	Grain heads:			
35235 22	Under 14 feet header size.....	..do.....	23,383	15,082
35235 23	14 feet and under 16 feet header size.....	..do.....	7,746	5,101
35235 24	16 feet and under 20 feet header size.....	..do.....	5,163	4,113
35235 25	20 feet and over header size.....	..do.....	1,735	1,190
	Corn heads:			
35235 26	2-row.....	..do.....	11,648	15,189
35235 27	3-row.....	..do.....	4,256	9,157
35235 28	4-row and larger.....	..do.....	6,925	19,660
	Windrowers or swathers:			
35235 33	Drawn.....	..do.....	5,383	10,808
35235 36	Self-propelled, auger type.....	..do.....		
35235 37	Self-propelled, canvas type.....	..do.....		
	Corn pickers:			
35235 41	1-row, drawn or mounted.....	..do.....	4,112	4,459
	2-row:			
35235 45	Drawn.....	..do.....	9,448	19,496
35235 47	Mounted.....	..do.....		
35235 48	Picker-shellers (drawn, mounted, or self-propelled).....	..do.....	(X)	(14)
35235 46	Field shelling attachments for corn pickers, including conversion packages.....	..do.....		
35235 51	Potato diggers.....	..do.....		
35235 53	Potato harvesters.....	..do.....	1,699	11,515
	Beet harvesters:			
35235 52	1-row.....	..do.....	665	2,704
35235 54	2-row.....	..do.....		
35235 56	3-row.....	..do.....		
35235 57	Peanut diggers, shakers, and windrowers.....	..do.....	3,251	1,773
32235 59	Peanut combines.....	..do.....	1,841	6,074

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports series MA-35A)--Con.		1967	
35235 --	HARVESTING MACHINERY—Continued			
	Field forage harvesters:			
35235 60	Self-propelled type.....	Number of units.....	1,575	8,205
	Shear bar-type (rigid knives and shear bar combination):			
35235 63	Basic machines.....	...do.....	24,504	35,500
	Attachments for shear bar-type forage harvesters:			
35235 66	Pick-up hay unit.....	...do.....	13,027	4,881
35235 67	Cutter bar hay unit.....	...do.....	2,790	1,655
	Row crop units:			
35235 68	1-row.....	...do.....	15,559	6,329
35235 69	2-row.....	...do.....	10,192	7,565
35235 70	Flail-type (horizontal knives or vertical free-swinging knives or hammers), including discharge spouts.....	...do.....	8,024	9,142
	Cotton pickers, spindle-type:			
35235 71	1-row.....	...do.....	497	6,188
35235 73	2-row.....	...do.....		
	Cotton strippers, field roller-type and finger-types:			
35235 75	Brush roll.....	...do.....	1,138	2,481
35235 78	Other.....	...do.....		
35235 81	Other harvesting machinery.....		(X)	<sup>14</sup> 26,607
35235 83	Attachments for harvesting machinery.....		(X)	48,328
35235 50	Parts (for replacement units only).....		(X)	59,300
35236 --	HAYING MACHINERY, TOTAL.....		(X)	155,647
	Mowers, cutter bar-type (excluding combinations mower-conditioners):			
35236 11	Drawn.....	Number of units.....	9,597	3,910
35236 12	Semimounted.....	...do.....	5,591	1,980
	Mounted:			
35236 14	Rear.....	...do.....	20,750	6,728
35236 16	Side.....	...do.....	6,182	2,228
35236 18	Combination mower-conditioners.....	...do.....	15,468	26,127
	Rakes:			
	Side delivery (including combination side rakes and tedders), cylinder type:			
35236 62	Ground driven.....	...do.....	20,420	8,993
	Power-take-off:			
35236 28	Mounted.....	...do.....	2,653	1,282
35236 29	Semimounted.....	...do.....	9,394	3,091
35236 30	Side delivery (finger wheel-type).....	...do.....		
35236 41	Hay stacking attachment for loaders.....	...do.....	4,705	1,316
	Pick-up hay balers:			
	Wire:			
35236 51	Engine driven.....	...do.....	1,052	3,949
35236 53	Tractor power-take-off.....	...do.....	4,426	7,389
	Twine:			
35236 55	Engine driven.....	...do.....	915	2,381
35236 57	Tractor power-take-off.....	...do.....	34,230	47,463
	Hay conditioners, excluding combination mower-conditioners:			
35236 61	Crimpers (one or both rollers corrugated).....	...do.....	4,218	2,436
35236 62	Crushers (smooth rollers).....	...do.....	2,819	1,865
35236 63	Hay crusher or hay conditioner attachments.....		(X)	( <sup>15</sup> )
35236 64	Bale throwing attachments for hay balers.....	Number of units.....	9,115	3,616
35236 65	Hay bale loaders, field type.....	...do.....	3,295	830
35236 81	Other haying machinery.....		(X)	5,249
35236 83	Other attachments.....		(X)	<sup>15</sup> 14,116
35236 60	Parts (replacement units only).....		(X)	10,703
35232 pt. 35239 pt.	FARM DAIRY MACHINES AND EQUIPMENT.....		(X)	34,170
	Mechanical installations:			
35232 03	Pumping outfits, stationary and portable.....	Number of units.....	16,503	3,941
	Pail-type milking machines:			
35232 05	Suspended units.....	...do.....	10,624	889
35232 06	Floor type (single unit).....	...do.....		
35232 07	Floor type (double unit).....	...do.....	(S)	7,932
35232 08	Pipeline milker units (individual clusters).....	...do.....		
35232 15	Other farm dairy machines and equipment.....		(X)	2,848
35232 16	Attachments.....		(X)	18,560
35239 70	Parts (replacement units only).....			

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measura	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports series MA-35A)--Con.		1967	
35232 pt.	SPRAYERS AND DUSTERS, TOTAL.....		(X)	55,809
35232 18	Power sprayers, except aircraft sprayers and dusters: Self-propelled.....	Number of units.....	1,689	5,750
	Not self-propelled:			
	Air-carried type:			
	Blower attachments:			
35232 19	For orchard use.....	...do.....	236	355
35232 21	For other use.....	...do.....		
	Complete units:			
35232 22	For orchard use.....	...do.....	1,009	4,099
35232 23	For field and row crop use.....	...do.....	5,757	2,143
35232 24	For other uses.....	...do.....		
	Other than air-carried type, complete units (pump, tank or barrel mount, discharge equipment with or without trailer or skids, except wheel-mounted hand-pulled):			
	Plunger-type pump sprayers:			
	Under 8 g.p.m. discharge:			
35232 25	Engine driven.....	...do.....	2,941	996
	Tractor power-take-off driven:			
35232 26	Pump mounted directly on tractor power-take-off shaft.	...do.....	6,672	1,414
35232 27	Pump mounted other than on tractor power-take-off shaft.....	...do.....	1,054	443
	8 g.p.m. discharge and over:			
35232 28	Engine driven.....	...do.....	1,956	1,836
	Tractor power-take-off driven:			
35232 29	Pump mounted directly on tractor power-take-off shaft.	...do.....	5,776	1,475
35232 31	Pump mounted other than on tractor power-take-off shaft.	...do.....	1,311	1,219
	Other than plunger-type pump sprayers (roller, gear, etc.):			
35232 32	Engine driven.....	...do.....	455	234
	Tractor power-take-off driven:			
35232 33	Pump mounted directly on tractor power-take-off shaft.	...do.....	23,591	5,314
35232 34	Pump mounted other than on tractor power-take-off shaft..	...do.....		
	Wheel-mounted, hand pulled type:			
35232 37	Tank of 16-gallons capacity and under.....	...do.....	8,048	806
35232 38	Tank of over 16-gallons capacity.....	...do.....	1,821	340
	Hand sprayers, agricultural (except flame):			
35232 39	Under 1 gallon.....	...do.....	4,216,419	2,112
	1 gallon and over:			
35232 41	Compressed air or gas.....	...do.....	1,399,265	8,816
35232 42	Knapsack (liquid pump).....	...do.....	54,289	1,009
35232 43	Wheelbarrow.....	...do.....	2,257	70
35232 44	Hose-end sprayers.....	...do.....	1,030,909	2,146
35232 45	Flame sprayers, hand.....	...do.....	20,697	285
	Sprayer pumps:			
35232 46	Power driven, plunger-type.....	...do.....	2,802	431
35232 47	Power driven, except plunger-type.....	...do.....	33,896	1,194
35232 48	Hand driven (bucket, barrel, slide, etc.).....	...do.....	60,153	304
	Dusters:			
	Power:			
35232 51	Tractor power-take-off.....	...do.....	3,611	506
35232 49	Engine-driven.....	...do.....		
35232 52	Traction, all types.....	...do.....		
	Hand types:			
35232 53	Crank or knapsack type.....	...do.....	14,482	203
35232 54	Plunger type.....	...do.....	362,053	465
35232 55	Attachments for sprayers and dusters.....		(X)	2,333
35239 72	Parts (replacement units only).....		(X)	9,511
35232 pt. 35239 pt.	FARM ELEVATORS AND BLOWERS, TOTAL.....		(X)	41,566
	Farm elevators, portable:			
	Single chain:			
35232 61	Bale type only.....	Number of units.....	13,002	1,488
35232 62	All other.....	...do.....	4,098	1,025
35232 63	Double chain.....	...do.....	23,827	8,724
	Auger type:			
35232 65	4 inches and smaller diameter.....	...do.....	38,370	1,559
	Over 4 inches diameter:			
35232 66	With truck.....	...do.....	(NA)	7,221
35232 67	Without truck.....	...do.....	(NA)	5,660

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports series MA-35A)--Con.		1967	
35232 pt.	FARM ELEVATORS AND BLOWERS—Continued			
35232 68	Farm elevators, stationary.....	Number of units.....	1,142	2,933
35232 69	Forage blowers, including combination grain and forage blowers..	...do.....	15,541	8,405
35232 71	Other farm elevators.....	...do.....	1,157	1,765
35232 72	Other farm blowers.....	...do.....		
35232 73	Attachments for farm elevators.....	...do.....		
35232 74	Attachments for farm blowers.....	...do.....		
35239 74	Parts for farm elevators (replacement units only).....	...do.....	(X)	1,477
35239 76	Parts for grain and forage blowers (replacement units only)....	...do.....	(X)	449
35238 pt. 35239 pt.	CULTIVATORS AND WEEDERS, TOTAL.....		(X)	89,443
	Corn and cotton type cultivators:			
35238 01	Drawn.....		(X)	( <sup>5</sup> )
	Mounted:			
35238 02	1-row.....	Number of units.....	6,070	510
	2-row:			
35238 03	Front mounted.....	...do.....	3,191	196
35238 04	Rear mounted.....	...do.....	3,602	933
	4-row:			
35238 05	Front mounted.....	...do.....	5,028	2,784
35238 06	Rear mounted.....	...do.....	28,954	16,184
	6-row and larger:			
35238 08	Front mounted.....	...do.....	14,879	10,817
35238 09	Rear mounted.....	...do.....		
35238 10	Beet, bean, and vegetable cultivators, drawn or mounted.....	...do.....	778	305
35238 11	Rotary hoe cultivator sections, drawn or mounted.....	...do.....	87,187	8,953
	Field cultivators:			
35238 13	Drawn.....	...do.....	24,494	10,843
35238 14	Mounted.....	...do.....	4,594	2,134
	Tool bars and tool bar carriers (basic unit only):			
35238 15	Drawn.....	...do.....	19,483	5,869
35238 16	Mounted.....	...do.....		
35238 17	Rod weeders, drawn or mounted.....	...do.....	3,341	1,350
35238 18	Other cultivators and weeders.....	...do.....	(X)	<sup>5</sup> 4,502
35238 19	Attachments for cultivators and weeders.....	...do.....	(X)	6,290
35239 80	Parts (replacement units only).....	...do.....	(X)	17,773
35238 pt.	MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE, TOTAL...		(X)	97,567
	Corn shellers, power:			
35238 22	Capacity 500 bushels per hour and under.....	Number of units.....	382	541
35238 23	Capacity over 500 bushels per hour.....	...do.....		
	Feed grinders and crushers, power (farm size):			
35238 24	Hammer mills, with hammers only.....	...do.....	4,267	1,404
35238 25	Burr mills, with grinding plates only.....	...do.....	2,129	1,363
35238 26	Combination roughage mills.....	...do.....		
35238 27	Roller mills.....	...do.....	1,479	804
	Feed mixers (farm size):			
35238 28	Stationary.....	...do.....	622	566
35238 29	Portable.....	...do.....		
	Combination grinder-mixers:			
35238 30	Stationary.....	...do.....	612	556
35238 31	Portable.....	...do.....	23,327	30,654
35238 32	Tobacco curers.....	...do.....	13,115	2,680
	Dryers (grain, hay, and seed):			
	Heated air crop dryers:			
	Batch type: <sup>7</sup>			
35238 33	Power take-off operated.....	...do.....	3,226	8,202
35238 34	Electric motor operated.....	...do.....		
35238 35	Continuous-flow type <sup>8</sup> .....	...do.....		
35238 43	Heated-air units <sup>9</sup> .....	...do.....	9,370	3,540
	Crop drying fans (over 15,000 c.f.m. at approximately one in. pressure):			
35238 36	24 inches and under diameter.....	...do.....	(X)	16,008
35238 37	Over 24 inches diameter.....	...do.....		
35238 38	Other machines for preparing crops for market or for use 44 including supplemental heaters (without fans).....		(X)	1,897
35238 39	Attachments.....	...do.....	(X)	4,258
35239 82	Parts (replacement units only).....	...do.....	(X)	

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
(As reported in Current Industrial Reports series MA-35A)--Con.			1967	
35238 pt. 35239 pt.	FARM POULTRY EQUIPMENT, TOTAL.....	.....	(X)	62,875
Incubators:				
35238 41	Chicken egg (all capacity).....	Number of units.....	(NA)	4,629
35238 42	Turkey egg incubators, regardless of capacity.....	...do.....		
35238 12	All other incubators for all types of eggs except chicken and turkey of any capacity.....	...do.....		
Brooders, floor:				
35238 48	Gas.....	...do.....	97,452	3,177
35238 50	Other (electric, oil, coal, and wood).....	...do.....	39,364	613
35238 51	Brooders, battery (starting and growing).....	Number of decks.....	5,286	154
Nests and cages:				
35238 52	Hole and colony type (total linear footage).....	Number of units.....	1,890,137	3,654
35238 53	Standard laying cages (total linear footage).....	...do.....	9,455,637	12,420
35238 54	Laying cages mechanized for feeding and/or egg gathering.....	...do.....		
35238 58	Turkey feeders.....	...do.....	14,973	557
Poultry feeders, except turkey feeders:				
35238 55	Trough (except mechanical) (total linear footage).....	...do.....	(NA)	754
35238 56	Hanging.....	...do.....	310,986	518
35238 57	Mechanical (total linear footage of conveyor).....	...do.....	7,359,898	11,636
35238 60	Powered feed carts.....	.....	(X)	( <sup>10</sup> )
Poultry waterers, except turkey waterers:				
35238 59	Trough (chicken type).....	Number of units.....	(NA)	7,558
35238 61	Automatic fountains.....	...do.....	97,017	378
35238 62	All other waterers.....	...do.....	4,482,777	2,771
35238 63	Turkey waterers.....	...do.....	82,600	126
35238 66	Egg washers.....	...do.....	784	2,028
35238 65	Egg graders, mechanized.....	.....	(X)	109,393
35238 67	Other farm poultry equipment.....	.....		
35238 68	Attachments for farm poultry equipment.....	.....		
35239 84	Parts (replacement units only).....	.....	(X)	1,752
35238 pt. 35239 pt.	HOG EQUIPMENT, TOTAL.....	.....	(X)	19,802
Feeding equipment:				
35238 89	Powered hog feeding system.....	Number of units.....	(NA)	119
35238 90	Pig feeders, under 100 lb. live weight.....	...do.....	246,919	1,396
35238 91	Hog feeders, over 100 lb. live weight.....	...do.....	207,640	10,045
Handling equipment:				
35238 92	Hog farrowing crate and stall.....	...do.....	74,095	2,416
35238 93	Hog pens (quantity in number of feet).....	.....	(X)	( <sup>11</sup> )
Watering equipment:				
35238 94	Hog waterer, heated (pressure type).....	Number of units.....	43,841	1,353
35238 95	Hog waterer, not heated (pressure and gravity type).....	...do.....	164,883	1,230
35238 96	Gravity storage hot waterer, 20 gallons or more capacity.....	...do.....	30,192	1,159
35238 97	Other hog equipment.....	.....	(X)	11,709
35238 98	Attachments for hog equipment.....	.....	(X)	136
35239 88	Parts (replacement units only).....	.....	(X)	239
35238 pt. 35239 pt.	OTHER BARN AND BARNYARD EQUIPMENT, TOTAL.....	.....	(X)	67,613
Cattle and dairy barn equipment:				
Feeding equipment:				
Silo unloaders, forage:				
Tower, including sealed storage unloaders:				
35238 45	Top unloaders.....	Number of units.....	21,568	21,125
35238 46	Bottom unloaders.....	...do.....		
35238 86	Horizontal.....	...do.....		
35238 87	Electric powered hunk feeders.....	...do.....	8,767	5,775
35238 65	Calf feeder, hopper type.....	...do.....	8,736	887
35238 85	Cattle feeder, hopper type.....	...do.....	8,117	1,415
Handling equipment:				
35238 70	Dairy, barn, gutter cleaners.....	...do.....	10,209	10,972
35238 73	Dairy cattle stall for use with stanchions.....	...do.....	38,346	804
35238 74	Chain tie stalls, all types.....	...do.....	39,073	886
35238 71	Dairy free stalls (for loose housing barns) new.....	...do.....	101,439	1,006
35238 78	Pens (quantity in number of feet).....	...do.....	50,060	343
35238 75	Milking parlor stalls.....	...do.....	18,476	2,046
35238 76	Panel type milking or feeding stalls (complete stalls).....	...do.....	19,006	234
35238 77	Stanchions, swing type.....	...do.....	58,427	474

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Farm Machinery and Equipment: 1972 and 1967—Continued

1972 product code	Type of farm equipment	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports series MA-35A)--Con.		1967	
35238 pt.	OTHER BARN AND BARNYARD EQUIPMENT—Continued			
	Cattle and dairy barn equipment—Continued			
	Watering equipment:			
35238 72	Combination cattle and hog waterer, heated (pressure type)..	Number of units.....	12,581	1,119
35238 79	Cattle waterers, heated (pressure type).....	..do.....	27,353	1,613
35238 80	Dairy cattle water bowls, inside.....	..do.....	244,256	1,437
35238 81	Stock watering tanks.....	..do.....	189,845	5,749
35238 82	Livestock water heaters.....	..do.....	47,127	759
35238 83	Other barn and barnyard equipment.....		(X)	7,082
35238 84	Attachments.....		(X)	779
35239 86	Parts (replacement units only).....		(X)	3,108
35230 pt.	FARM WAGONS AND OTHER FARM TRANSPORTATION EQUIPMENT, TOTAL..		(X)	70,794
35239 --	Wagons (chassis only) and trailer gears:			
35230 51	2-wheel.....	Number of units.....	3,232	642
	4-wheel:			
35230 53	Under 4-ton capacity.....	..do.....	37,405	6,189
35230 55	4-ton capacity and over.....	..do.....	51,335	8,403
	Boxes and racks for mounting on wagons, trucks, and trailer gears:			
35230 61	Manual unloading or dump.....	..do.....	17,808	5,128
	Power unloading:			
35230 65	Grain type (cannot handle forage).....	..do.....	8,214	2,702
	Forage type:			
35230 67	Rear unloading only.....	..do.....	3,410	2,044
35230 69	Side unloading (with or without rear unloading).....	..do.....	26,555	24,174
35230 63	Gravity unloading (grain type only).....	..do.....	19,042	2,757
	Boxes with integral running gear:			
35230 71	Grain type (cannot handle forage).....	..do.....	939	663
35230 73	Forage type.....	..do.....		
35230 79	Other farm transportation equipment.....		(X)	11,807
35230 81	Attachments.....		(X)	3,388
35239 89	Parts (replacement units only).....		(X)	2,897

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. Data for these products are included, however, in the totals. (S) Withheld because data did not meet publication standards on the basis of a consistency review. <sup>1</sup>Revised.

<sup>1</sup>Data are limited to attachments and parts shipped by companies manufacturing complete tractors.

<sup>2</sup>Grain drills and ground drive conveyor-type manure spreaders for 1972 are included in "other planting, seeding, and fertilizing machinery."

<sup>3</sup>Data for semimounted cutter-bar-type mowers (excluding combination mower-conditioners) and hay stacking attachments for loaders are included with "other haying machinery."

<sup>4</sup>Data for other power sprayers, over 4 gallons per minute, and hand-pulled and garden-type, 4 gallons per minute and under, all tank capacity, are included with "all other sprayers and dusters."

<sup>5</sup>Included with "other cultivators and weeder."

<sup>6</sup>Data for power corn shellers are combined with "other machines for preparing crops for market or for use."

<sup>7</sup>Respondents were requested to use the following definition: Batch dryers are defined as any dryer wherein the product to be dried is placed in the dryer, the complete drying and cooling operation performed, then the product removed to the place of storage or further processing. The term usually refers to dryers for small grain, seed, etc., which are self-contained machines comprising a drying compartment, either horizontal or vertical, to contain the product being dried while heated air is forced or drawn through it from a central portion (usually called a plenum chamber). Cooling is usually carried out in the same manner. Integral conveying equipment provides for loading and/or unloading the dryer. Also included are the fan, burner, and control system. Batch dryers are usually portable, but may be stationary.

<sup>8</sup>Respondents were requested to use the following definition: Continuous-flow dryers are defined as any dryer wherein the product to be dried is in continuous movement through the dryer and air movement is continuous, in contrast to batch operation.

<sup>9</sup>Respondents were requested to use the following definition: Heated-air units are defined as basic heated-air-producing units including fan, burner system, and electrical system. It is usually coupled to drying structure by means of a flexible duct. It may have transport chassis and wheels for portability.

<sup>10</sup>Included with "other farm poultry equipment."

<sup>11</sup>Included with "other hog equipment."

<sup>12</sup>Data for horizontal forage and grain silo unloaders are included with "other barn and barnyard equipment."

<sup>13</sup>For technical reasons, it was necessary to use codes in the 35230 series for products which are actually included by definition in product class 35238.

<sup>14</sup>The 1967 data for picker-shelliers (drawn, mounted, or self-propelled) and field shelling attachments for corn pickers, including conversion packages, are combined with "other harvesting machinery."

<sup>15</sup>Data for hay crusher or hay condition attachments are included in "other attachments."

TABLE 6A-3. Shipments of Garden Tractors and Motor Tillers: 1972 and 1967

1972 product code	Type of garden tractor or motor tiller	Unit of measure	1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35242 pt.	(As reported in Current Industrial Report series MA-35A)					
	GARDEN TRACTORS AND MOTOR TILLERS, TOTAL.....	.....	(X)	<sup>1</sup> 311,073	(X)	203,210
	Garden tractors (including motor tillers).....	Number.....	<sup>1</sup> 662,583	<sup>1</sup> 235,916	560,387	155,466
	Garden tractors (except motor tillers) <sup>2</sup> .....	.....do.....	<sup>1</sup> 328,793	<sup>1</sup> 197,449	(D)	(D)
	Riding type.....	.....do.....	239,771	178,344	260,946	123,370
35242 81	Under 7.0 engine hp.....	.....do.....	70,858	37,371	33,295	10,418
35242 82	7.0 and under 10.0 engine hp.....	.....do.....			68,369	29,565
35242 84	10.0 and under 14.0 engine hp.....	.....do.....	103,521	79,896	159,282	83,387
35242 85	14.0 engine hp and over.....	.....do.....	65,392	61,077		
	Walking type.....	.....do.....	89,022	19,105	(D)	(D)
35242 86	Under 7.0 engine hp.....	.....do.....	89,022	19,105	(D)	(D)
35242 87	7.0 engine hp and over.....	.....do.....			(D)	(D)
	Motor tillers.....	.....do.....	333,790	38,467	(D)	(D)
35242 88	Under 6 engine hp.....	.....do.....	307,909	34,400	269,788	24,446
35242 89	6 engine hp and over.....	.....do.....	25,881	4,067	(D)	(D)
35242 91	Attachments for garden tractors.....	.....	(X)	55,513	(X)	39,969
35242 92						
35249 78	Parts for garden tractors.....	.....	(X)	19,644	(X)	7,775

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Data for "walking type garden tractors" have been excluded from all totals to avoid disclosure of individual companies.<sup>2</sup>Respondents were requested to use the following definition: Garden tractors are defined as tractors weighing less than 1,200 pounds (basic machines), typically powered by air-cooled engines with less than four cylinders and total piston displacement of under 45 cubic inches. Such tractors are further distinguished from farm tractors in that they usually carry an engine horsepower rating but not a belt horsepower rating.

TABLE 6A-4. Gasoline Engines (35191 and 35192), by Horsepower Rating: 1972 and 1967

Horsepower rating	Total engines <sup>1</sup>	Total horsepower <sup>2</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Produced and incorporated into products at the same establishment <sup>3</sup>
			Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant	
	(number)	(1,000)	(number)	(\$1,000)	(number)	(\$1,000)	(number)	(\$1,000)	
	1972								
(As reported in Current Industrial Reports series MA-35L)									
GASOLINE ENGINES, TOTAL <sup>4</sup> .....	11,008,930	87,175	9,740,787	527,903	9,499,621	501,046	241,166	26,857	1,268,142
Under 2 and 2.0 to 2.9.....	874,242	1,465			440,322	16,885			
3.0 to 3.9, 4.0 to 4.9, 5.0 to 5.9, 6.0 to 6.9, 7.0 to 7.9, 8.0 to 8.9.....	9,758,862	43,095			8,374,815	288,798			
9.0 to 9.9 and 10.0 to 10.9.....					136,808	15,202			
11 to 14.....	56,363	962			235,807	29,044			
15 to 20.....					46,059	13,237			
21 to 25 and 26 to 30.....	36,220	1,033	9,740,787	527,903	32,320	12,779	241,166	26,857	1,268,142
31 to 35, 36 to 40, and 41 to 45.....	30,874	1,142			34,090	12,332			
46 to 50.....	26,688	1,427			9,236	5,043			
51 to 60.....					26,417	14,215			
61 to 70.....	27,624	1,897			3,088	2,088			
71 to 80.....	6,902	566							
81 to 90.....			8,376	846	68,441		29,190		
91 to 100.....	70,773	9,084	25,114	17,074					
101 to 150.....	27,865	4,887	67,104		45,159				-
151 to 200.....	84,141	20,771							
201 to 300 and 301 and over.....									
	1967								
GASOLINE ENGINES, TOTAL <sup>4</sup> .....	9,102,403	69,425	8,363,706	419,824	8,120,218	370,466	243,488	49,358	738,697
Under 2, 2.0 to 2.9, 3.0 to 3.9, 4.0 to 4.9, 5.0 to 5.9, 6.0 to 6.9, and 7.0 to 7.9.....	8,257,572	27,845	8,045,293	256,176	7,407,256	184,363	165,942	4,883	706,825
8.0 to 8.9 and 9.0 to 9.9.....					136,340	11,463			
10.0 to 10.9.....	494,546	5,475			173,103	17,081			
11 to 14.....					110,757	14,157			
15 to 20.....					51,895	24,229			
21 to 25, 26 to 30, 31 to 35, 36 to 40, 41 to 45, and 46 to 50.....	78,549	2,724			62,370	24,087	55,793	21,156	6,577
51 to 60.....	76,308	4,564	63,692	30,653	36,206	13,744	13,452	9,113	12,616
61 to 70.....					14,034	7,796			
71 to 80 and 81 to 90.....	119,347	12,486	30,681	17,087	10,709	5,834	19,972	11,253	1,919
91 to 100.....					28,391	16,303	14,906	6,736	
101 to 150.....	37,281	6,523	58,356	22,716	50,590	19,535	7,766	3,181	
151 to 200.....					33,113	14,327			
201 to 300.....	38,800	9,808	74,923	52,802	20,759	15,415	16,294	8,430	1,158
301 and over.....					4,757	14,630			

See footnotes on next page.

TABLE 6A-4. Gasoline Engines (35191 and 35192), by Horsepower Rating: 1972 and 1967—Continued

(Footnotes for table 6A-4)

Note: Horsepower is defined as "maximum published horsepower rating at maximum recommended r.p.m."

<sup>1</sup>Represents total number of engines shipped or produced and incorporated into products at the same establishment.<sup>2</sup>These figures were derived rather than reported. Since fractional horsepower ratings were not used in this derivation (i.e., 4.8 hp. engines were treated as 4 hp.), the data are somewhat understated, primarily in the small engine size groups.<sup>3</sup>Represents engines produced and incorporated (in the same plant) into products such as construction machinery, farm machinery, tractors, engine-generator sets, and other products.<sup>4</sup>Data include basic engines (short block engines), primarily automotive type, shipped for conversion to marine or other nonautomotive uses. Of total engines shipped in 1972, gasoline engines shipped for conversion totaled 247,559. The comparable figure for 1967 is 137,388.

TABLE 6A-5. Nonautomotive Diesel Engines (35193), by Horsepower Rating: 1972 and 1967

Horsepower rating	Total engines <sup>1</sup>	Total horsepower <sup>2</sup>	Total shipments and interplant transfers		Shipments to other companies		Interplant transfers		Produced and incorporated into products at the same establishment <sup>3</sup>													
			Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant	Quantity	Value, f.o.b. plant														
	(number)	(1,000)	(number)	(\$1,000)	(number)	(\$1,000)	(number)	(\$1,000)														
(As reported in Current Industrial Report series MA-35L)	1972																					
NONAUTOMOTIVE DIESEL ENGINES, TOTAL <sup>4</sup> .....	<sup>5</sup> 259,274	53,529	<sup>5</sup> 181,246	<sup>5</sup> 600,279	81,249	359,248	99,997	241,031	<sup>5</sup> 78,028													
Under 6, 6 to 10, and 11 to 20.....	}	14,234	507	}	87,568	147,378	}	2,586	2,915	}	49,605	83,685	}	61,353								
21 to 30, 31 to 40, and 41 to 50.....																						
51 to 70.....																						
71 to 100.....																						
101 to 150.....																						
151 to 200.....	44,148	7,946	}	}	}	}	}	}	}	}	}	}										
201 to 250 and 251 to 300.....																						
301 to 350 and 351 to 400.....																						
401 to 450.....																						
451 to 500.....																						
501 to 600.....	11,265	6,128	}	93,678	452,901	}	4,482	45,570	}	50,392	157,346	}	16,675									
601 to 700.....																						
701 to 800.....																						
801 to 950 and 951 to 1,000.....																						
1,001 to 1,500.....																						
1,501 and over.....	4,195	8,278	}	}	}	}	}	}	}	}	}	}										
1967																						
NONAUTOMOTIVE DIESEL ENGINES, TOTAL <sup>4</sup> .....	<sup>5</sup> 252,452	42,615											<sup>5</sup> 163,319	<sup>5</sup> 439,684	82,162	276,838	81,157	162,846	<sup>5</sup> 89,133			
Under 6, 6 to 10, 11 to 20, 21 to 30, 31 to 40, and 41 to 50.....	}	(D)											(D)	29,424	26,469	}	4,519	3,974	}	18,427	15,043	(D)
51 to 70.....																						
71 to 100.....																						
101 to 150.....																						
151 to 200.....																						
201 to 250.....	122,689	13,311	}	24,257	27,057	}	8,203	8,517	}	16,054	18,540	}	46,885									
251 to 300.....																						
301 to 350 and 351 to 400.....																						
401 to 450 and 451 to 500.....																						
501 to 600.....																						
601 to 700 and 701 to 800.....	}	(D)	(D)	11,401	58,366	}	9,054	46,676	}	2,347	11,690	}	(D)									
801 to 900 and 901 to 1,000.....																						
1,001 to 1,500.....																						
1,501 and over.....																						

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Represents total number of engines shipped or produced and incorporated into products at the same establishment.<sup>2</sup>These figures were derived rather than reported. Since fractional horsepower ratings were not used in this derivation (i.e., 9.8 hp. engines were treated as 9 hp.), the data are somewhat understated, primarily in the small engine groups.<sup>3</sup>Represents engines produced and incorporated (in the same plant) into products such as construction machinery, farm machinery, tractors, engine-generator sets, and other products.<sup>4</sup>Data include basic engines (short block engines), primarily automotive type, shipped for conversion to marine or other nonautomotive uses.<sup>5</sup>For 1972, includes a total of 74 dual-fuel engines produced, of which 33 units, valued at \$8.0 million, were shipped; for 1967, 73 units were produced, of which 32, valued at \$6.8 million, were shipped.



TABLE 6A-6. Automotive Diesel Engines (35194), by Horsepower Rating: 1972

Horsepower rating	Total engines <sup>1</sup>  (number)	Total horsepower <sup>2</sup>  (1,000)	Shipments and interplant transfers <sup>3</sup>		Produced and incorporated into products at the same establishment  (number)
			Quantity  (number)	Value, f.o.b. plant  (\$1,000)	
(As reported in Current Industrial Reports series MA-35L)	1972				
AUTOMOTIVE DIESEL ENGINES, TOTAL.....	180,036	50,192	180,036	632,323	
Under 151.....	}	8,840	1,514	8,840	17,069
151 to 200.....					
201 to 225.....		23,149	4,923	23,149	48,400
226 and over.....		148,047	43,755	148,047	566,854

Note: For 1967, data on automotive diesel engines by horsepower rating are not available.

- Represents zero.

<sup>1</sup>Represents total number of engines shipped or produced and incorporated into products at the same establishment.

<sup>2</sup>These figures were derived rather than reported.

<sup>3</sup>Shipments to other companies and interplant transfers are combined to avoid disclosing figures for individual companies.

TABLE 6A-7. Gas Engines (Except Automotive) Product Class (35196), by Horsepower Rating: 1972 and 1967

Horsepower rating	Total engines <sup>1</sup>	Total horsepower <sup>2</sup>	Shipments and interplant transfers <sup>3</sup>		Produced and incorporated into products at the same establishment <sup>4</sup>					
	(number)	(1,000)	Quantity (number)	Value, f.o.b. plant (\$1,000)						
(As reported in Current Industrial Reports series MA-35L)	1972									
GAS ENGINES (EXCEPT AUTOMOTIVE), TOTAL <sup>5</sup> .....	11,145	1,986	9,161	36,353	1,984					
Under 51.....	}	}	}	}	}					
51 to 150.....						10,462	1,202	5,766	5,039	1,905
151 to 500.....						683	784	2,791	11,982	79
501 and over.....	604	19,332								
	1967									
GAS ENGINES (EXCEPT AUTOMOTIVE), TOTAL <sup>5</sup> .....	12,932	2,415	10,219	21,871	2,713					
Under 21, 21 to 50, and 51 to 150.....	}	}	{	}	}					
151 to 500.....						12,318	1,751	5,042	7,936	2,382
501 and over.....						614	664	4,894	8,336	331
			283	5,599						

<sup>1</sup>Represents total number of engines shipped or produced and incorporated into products at the same establishment.

<sup>2</sup>These figures were derived rather than reported.

<sup>3</sup>Shipments to other companies and interplant transfers are combined to avoid disclosing figures for individual companies.

<sup>4</sup>Represents engines produced and incorporated (in the same plant) into products such as construction machinery, farm machinery, tractors, engine-generator sets, and other products.

<sup>5</sup>Data include basic engines (short block engines), primarily automotive type, shipped for conversion to marine or other nonautomotive uses.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STEAM, GAS, AND HYDRAULIC GENERATOR SET UNITS (35111)			GASOLINE ENGINES, 11 HORSEPOWER AND OVER, EXCEPT AIRCRAFT, AUTOMOBILE, ETC. (35192)		
United States.....	1,521.6	(NA)	United States.....	164.0	171.4
Northeast Region.....	GG	(NA)	Northeast Region.....	AA	AA
New England Division.....	GG	(NA)	Middle Atlantic Division.....	AA	(NA)
Maine.....	FF	(NA)	New York.....	AA	(NA)
Massachusetts.....	GG	(NA)			
Connecticut.....	FF	(NA)	North Central Region.....	156.5	159.3
Middle Atlantic Division.....	GG	(NA)	East North Central Division.....	GG	150.8
New York.....	GG	(NA)	Ohio.....	EE	EE
New Jersey.....	CC	(NA)	Indiana.....	AA	AA
Pennsylvania.....	GG	(NA)	Illinois.....	BB	EE
			Michigan.....	52.7	51.2
North Central Region.....	58.8	(NA)	Wisconsin.....	73.3	67.6
East North Central Division.....	FF	(NA)	West North Central Division.....	EE	8.5
Indiana.....	AA	(NA)	Minnesota.....	CC	BB
Illinois.....	CC	(NA)	Iowa.....	CC	BB
Michigan.....	EE	(NA)			
Wisconsin.....	CC	(NA)	South Region.....	6.0	EE
West North Central Division.....	FF	(NA)	South Atlantic Division.....	BB	(NA)
Minnesota.....	EE	(NA)	North Carolina.....	AA	(NA)
Iowa.....	BB	(NA)	East South Central Division.....	BB	CC
			Kentucky.....	BB	CC
South Region.....	GG	(NA)			
South Atlantic Division.....	GG	(NA)	DIESEL ENGINES (EXCEPT FOR TRUCKS AND BUSES) (35193)		
North Carolina.....	GG	(NA)	United States.....	604.0	447.9
South Carolina.....	GG	(NA)	Northeast Region.....	50.4	EE
			New England Division.....	AA	(NA)
West Region.....	FF	(NA)	Massachusetts.....	AA	(NA)
Pacific Division.....	FF	(NA)	Middle Atlantic Division.....	FF	EE
California.....	FF	(NA)	New York.....	38.8	EE
			Pennsylvania.....	EE	AA
STEAM, GAS, AND HYDRAULIC TURBINES AND PARTS (35112)					
United States.....	541.5	(NA)	North Central Region.....	545.2	428.1
Northeast Region.....	361.8	(NA)	East North Central Division.....	GG	GG
New England Division.....	103.7	(NA)	Ohio.....	BB	BB
Maine.....	BB	(NA)	Indiana.....	FF	GG
Massachusetts.....	GG	(NA)	Illinois.....	GG	175.3
Connecticut.....	FF	(NA)	Michigan.....	GG	GG
Middle Atlantic Division.....	258.1	(NA)	Wisconsin.....	21.1	24.2
New York.....	GG	(NA)	West North Central Division.....	CC	CC
New Jersey.....	EE	(NA)	Iowa.....	CC	CC
Pennsylvania.....	150.7	(NA)			
			South Region.....	1.3	(NA)
North Central Region.....	18.1	(NA)	West Region.....	7.0	CC
East North Central Division.....	EE	(NA)	Pacific Division.....	CC	CC
Ohio.....	BB	(NA)	California.....	CC	CC
Indiana.....	CC	(NA)			
Michigan.....	AA	(NA)	DIESEL ENGINES (FOR TRUCKS AND BUSES) (35194)		
Wisconsin.....	AA	(NA)	United States.....	634.6	(NA)
West North Central Division.....	BB	(NA)	North Central Region.....	GG	(NA)
Minnesota.....	BB	(NA)	East North Central Division.....	GG	(NA)
			Ohio.....	EE	(NA)
South Region.....	22.8	(NA)	Indiana.....	GG	(NA)
South Atlantic Division.....	FF	(NA)	Illinois.....	GG	(NA)
Virginia.....	AA	(NA)	Michigan.....	GG	(NA)
Georgia.....	BB	(NA)			
Florida.....	EE	(NA)	South Region.....	GG	(NA)
			South Atlantic Division.....	GG	(NA)
West Region.....	138.7	(NA)	Maryland.....	GG	(NA)
Mountain Division.....	GG	(NA)	East South Central Division.....	BB	(NA)
Arizona.....	GG	(NA)	Tennessee.....	BB	(NA)
Pacific Division.....	GG	(NA)			
California.....	GG	(NA)			
GASOLINE ENGINES UNDER 11 HORSEPOWER, EXCEPT AIRCRAFT, AUTOMOBILE, ETC. (35191)			GAS ENGINES (EXCEPT GAS TURBINES) (35196)		
United States.....	326.8	215.5	United States.....	35.2	(NA)
North Central Region.....	324.7	214.8	North Central Region.....	33.7	(NA)
East North Central Division.....	GG	GG	East North Central Division.....	FF	(NA)
Wisconsin.....	GG	190.8	Ohio.....	CC	(NA)
West North Central Division.....	EE	EE	Illinois.....	CC	(NA)
Iowa.....	EE	EE	Michigan.....	CC	(NA)
			Wisconsin.....	CC	(NA)
West Region.....	AA	(NA)	West North Central Division.....	BB	(NA)
Pacific Division.....	AA	(NA)	Iowa.....	BB	(NA)
California.....	AA	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
GAS ENGINES (EXCEPT GAS TURBINES) (35196)--Con.			WHEEL TRACTORS AND ATTACHMENTS (EXCEPT CONTRACTORS) (35231)--Continued		
South Region.....	1.5	(NA)	North Central Region--Continued		
West South Central Division.....	AA	(NA)	West North Central Division.....	GG	(NA)
Texas.....	AA	(NA)	Minnesota.....	7.6	(NA)
OUTBOARD MOTORS (35195) AND TANK AND CONVERTED INTERNAL COMBUSTION ENGINES (35197)			Iowa.....	GG	(NA)
United States.....	425.9	(NA)	North Dakota.....	CC	(NA)
Northeast Region.....	CC	(NA)	South Region.....	GG	(NA)
Middle Atlantic Division.....	5.3	(NA)	South Atlantic Division.....	BB	(NA)
New York.....	BB	(NA)	North Carolina.....	BB	(NA)
North Central Region.....	418.0	(NA)	East South Central Division.....	GG	(NA)
East North Central Division.....	GG	(NA)	Kentucky.....	GG	(NA)
Ohio.....	EE	(NA)	West South Central Division.....	AA	(NA)
Illinois.....	GG	(NA)	FARM DAIRY MACHINES, SPRAYERS AND DUSTERS, ETC. (35232) <sup>1</sup>		
Michigan.....	61.3	(NA)	United States.....	157.8	(NA)
Wisconsin.....	GG	(NA)	Northeast Region.....	16.3	(NA)
West North Central Division.....	EE	(NA)	Middle Atlantic Division.....	EE	(NA)
Iowa.....	EE	(NA)	New York.....	EE	(NA)
West Region.....	BB	(NA)	Pennsylvania.....	AA	(NA)
Pacific Division.....	AA	(NA)	North Central Region.....	128.6	(NA)
California.....	AA	(NA)	East North Central Division.....	68.1	(NA)
PARTS AND ACCESSORIES FOR INTERNAL COMBUSTION ENGINES (35199)			Ohio.....	1.7	(NA)
United States.....	1,144.9	(NA)	Indiana.....	7.6	(NA)
Northeast Region.....	122.6	(NA)	Illinois.....	38.5	(NA)
New England Division.....	GG	(NA)	Michigan.....	6.2	(NA)
Massachusetts.....	FF	(NA)	Wisconsin.....	14.2	(NA)
Connecticut.....	FF	(NA)	West North Central Division.....	60.5	(NA)
Middle Atlantic Division.....	GG	(NA)	Minnesota.....	13.4	(NA)
New York.....	50.6	(NA)	Iowa.....	16.6	(NA)
New Jersey.....	AA	(NA)	Missouri.....	3.6	(NA)
Pennsylvania.....	EE	(NA)	North Dakota.....	BB	(NA)
North Central Region.....	927.8	(NA)	South Dakota.....	AA	(NA)
East North Central Division.....	872.1	(NA)	Nebraska.....	12.9	(NA)
Ohio.....	85.3	(NA)	Kansas.....	10.9	(NA)
Indiana.....	184.5	(NA)	South Region.....	10.0	(NA)
Illinois.....	176.6	(NA)	South Atlantic Division.....	5.5	(NA)
Michigan.....	195.8	(NA)	North Carolina.....	AA	(NA)
Wisconsin.....	229.8	(NA)	Florida.....	BB	(NA)
West North Central Division.....	55.7	(NA)	East South Central Division.....	BB	(NA)
Minnesota.....	EE	(NA)	Tennessee.....	AA	(NA)
Iowa.....	FF	(NA)	West South Central Division.....	AA	(NA)
Missouri.....	EE	(NA)	West Region.....	2.9	(NA)
South Region.....	42.0	(NA)	Pacific Division.....	BB	(NA)
South Atlantic Division.....	CC	(NA)	California.....	BB	(NA)
North Carolina.....	AA	(NA)	PLANTING, SEEDING, AND FERTILIZING MACHINERY (35233)		
Florida.....	BB	(NA)	United States.....	172.0	183.0
East South Central Division.....	FF	(NA)	Northeast Region.....	EE	7.9
Kentucky.....	CC	(NA)	Middle Atlantic Division.....	EE	CC
Tennessee.....	EE	(NA)	Pennsylvania.....	EE	CC
West South Central Division.....	16.5	(NA)	North Central Region.....	139.4	160.3
Louisiana.....	CC	(NA)	East North Central Division.....	77.9	113.6
Oklahoma.....	CC	(NA)	Ohio.....	EE	CC
Texas.....	5.7	(NA)	Indiana.....	10.4	12.1
West Region.....	52.5	(NA)	Illinois.....	48.9	70.2
Mountain Division.....	EE	(NA)	Michigan.....	AA	AA
Colorado.....	EE	(NA)	Wisconsin.....	4.6	20.9
Pacific Division.....	FF	(NA)	West North Central Division.....	61.5	46.7
California.....	FF	(NA)	Minnesota.....	12.0	11.9
WHEEL TRACTORS AND ATTACHMENTS (EXCEPT CONTRACTORS) (35231)			Iowa.....	29.5	17.1
United States.....	1,215.2	(NA)	North Dakota.....	BB	BB
North Central Region.....	GG	(NA)	South Dakota.....	BB	BB
East North Central Division.....	596.1	(NA)	Nebraska.....	5.0	6.6
Indiana.....	BB	(NA)	Kansas.....	4.6	1.6
Illinois.....	GG	(NA)	South Region.....	19.5	12.7
Michigan.....	GG	(NA)	South Atlantic Division.....	3.6	4.7
Wisconsin.....	GG	(NA)	North Carolina.....	AA	AA
			Florida.....	AA	(NA)

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PLANTING, SEEDING, AND FERTILIZING MACHINERY (35233)--Continued			HARVESTING MACHINERY (35235)--Continued		
South Region--Continued			South Region--Continued.....		
East South Central Division.....	12.5	3.2	West South Central Division.....	EE	8.6
Alabama.....	EE	AA	Arkansas.....	BB	(NA)
West South Central Division.....	3.4	4.8	Louisiana.....	8.4	7.3
Oklahoma.....	AA	AA	Texas.....	AA	(NA)
Texas.....	AA	1.4	West Region.....	13.3	20.4
West Region.....	AA	2.1	Mountain Division.....	4.0	7.3
HARROWS, ROLLERS, PULVERIZERS, AND SIMILAR EQUIPMENT (35234) <sup>1</sup>			Idaho.....	AA	5.6
United States.....	191.8	(NA)	Colorado.....	AA	AA
Northeast Region.....	BB	(NA)	Utah.....	AA	(NA)
Middle Atlantic Division.....	BB	(NA)	Pacific Division.....	9.3	13.1
Pennsylvania.....	BB	(NA)	Washington.....	AA	(NA)
North Central Region.....	121.4	(NA)	California.....	CC	11.7
East North Central Division.....	81.1	(NA)	HAYING MACHINERY (35236)		
Ohio.....	AA	(NA)	United States.....	184.1	148.8
Indiana.....	EE	(NA)	Northeast Region.....	GG	GG
Illinois.....	60.2	(NA)	Middle Atlantic Division.....	GG	GG
Wisconsin.....	5.6	(NA)	Pennsylvania.....	GG	GG
West North Central Division.....	40.4	(NA)	North Central Region.....	GG	72.7
Minnesota.....	BB	(NA)	East North Central Division.....	EE	15.0
Iowa.....	14.7	(NA)	Ohio.....	CC	BB
Missouri.....	BB	(NA)	Indiana.....	BB	AA
Nebraska.....	2.9	(NA)	Wisconsin.....	1.7	AA
Kansas.....	16.6	(NA)	West North Central Division.....	83.7	57.7
South Region.....	59.7	(NA)	Minnesota.....	BB	5.2
South Atlantic Division.....	9.7	(NA)	Iowa.....	FF	FF
Georgia.....	7.3	(NA)	North Dakota.....	BB	(NA)
East South Central Division.....	30.4	(NA)	South Dakota.....	AA	1.0
Tennessee.....	7.9	(NA)	Nebraska.....	EE	(NA)
Alabama.....	EE	(NA)	Kansas.....	FF	EE
Mississippi.....	CC	(NA)	South Region.....	EE	EE
West South Central Division.....	19.6	(NA)	East South Central Division.....	EE	EE
Arkansas.....	BB	(NA)	Tennessee.....	EE	EE
Louisiana.....	BB	(NA)	West Region.....	BB	3.1
Texas.....	EE	(NA)	Mountain Division.....	BB	AA
West Region.....	CC	(NA)	Colorado.....	AA	AA
Mountain Division.....	BB	(NA)	Pacific Division.....	BB	AA
Colorado.....	BB	(NA)	Oregon.....	BB	AA
Pacific Division.....	4.2	(NA)	PLOWS AND LISTERS (35237) <sup>1</sup>		
California.....	BB	(NA)	United States.....	85.4	(NA)
HARVESTING MACHINERY (35235)			North Central Region.....	78.2	(NA)
United States.....	580.4	580.7	East North Central Division.....	58.4	(NA)
Northeast Region.....	4.2	BB	Ohio.....	AA	(NA)
Middle Atlantic Division.....	BB	BB	Indiana.....	BB	(NA)
New York.....	BB	1.5	Illinois.....	FF	(NA)
Pennsylvania.....	AA	BB	Wisconsin.....	AA	(NA)
North Central Region.....	498.8	526.1	West North Central Division.....	19.9	(NA)
East North Central Division.....	312.2	317.5	Iowa.....	6.4	(NA)
Ohio.....	FF	FF	North Dakota.....	CC	(NA)
Indiana.....	FF	24.8	Nebraska.....	AA	(NA)
Illinois.....	GG	GG	Kansas.....	BB	(NA)
Michigan.....	AA	2.1	South Region.....	5.4	(NA)
Wisconsin.....	FF	26.1	East South Central Division.....	2.1	(NA)
West North Central Division.....	186.6	208.6	Tennessee.....	AA	(NA)
Minnesota.....	CC	6.8	West South Central Division.....	2.6	(NA)
Iowa.....	GG	98.4	Texas.....	BB	(NA)
Missouri.....	GG	GG	West Region.....	AA	(NA)
North Dakota.....	BB	BB	Pacific Division.....	AA	(NA)
Nebraska.....	FF	FF	ALL OTHER FARM MACHINERY AND EQUIPMENT (35238) <sup>2</sup>		
Kansas.....	EE	BB	United States.....	610.8	403.9
South Region.....	64.0	FF	Northeast Region.....	28.1	16.9
South Atlantic Division.....	21.6	15.7	Middle Atlantic Division.....	27.6	16.6
Virginia.....	1.9	AA	New York.....	1.4	1.7
North Carolina.....	EE	BB	New Jersey.....	6.8	2.2
Georgia.....	CC	CC	Pennsylvania.....	19.4	12.7
East South Central Division.....	FF	CC			
Tennessee.....	FF	CC			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ALL OTHER FARM MACHINERY AND EQUIPMENT (35238)-- Continued			PARTS FOR FARM MACHINERY AND EQUIPMENT, SOLD SEPARATELY (35239)--Continued		
North Central Region.....	433.3	314.4	West Region.....	16.9	(NA)
East North Central Division.....	197.0	163.6	Mountain Division.....	9.6	(NA)
Ohio.....	EE	EE	Idaho.....	AA	(NA)
Indiana.....	31.0	20.8	Colorado.....	8.0	(NA)
Illinois.....	54.4	68.7	Pacific Division.....	7.4	(NA)
Michigan.....	EE	EE	Washington.....	AA	(NA)
Wisconsin.....	77.7	42.9	California.....	5.3	(NA)
West North Central Division.....	236.2	150.9			
Minnesota.....	26.6	20.3	GARDEN TRACTORS AND MOTOR TILLERS (35242) <sup>1</sup>		
Iowa.....	105.2	83.3	United States.....	321.1	(NA)
Missouri.....	9.0	BB			
North Dakota.....	BB	(NA)	Northeast Region.....	FF	(NA)
South Dakota.....	AA	AA	Middle Atlantic Division.....	FF	(NA)
Nebraska.....	58.6	18.9	New York.....	EE	(NA)
Kansas.....	33.1	21.0	Pennsylvania.....	CC	(NA)
South Region.....	76.4	48.0	North Central Region.....	203.9	(NA)
South Atlantic Division.....	44.1	32.1	East North Central Division.....	184.2	(NA)
Virginia.....	2.5	1.9	Indiana.....	EE	(NA)
North Carolina.....	CC	9.2	Illinois.....	GG	(NA)
South Carolina.....	CC	AA	Michigan.....	AA	(NA)
Georgia.....	20.3	12.7	Wisconsin.....	GG	(NA)
Florida.....	6.5	(NA)	West North Central Division.....	19.7	(NA)
East South Central Division.....	13.3	5.3	Minnesota.....	BB	(NA)
Kentucky.....	AA	(NA)	Iowa.....	EE	(NA)
Tennessee.....	BB	AA	Missouri.....	BB	(NA)
Alabama.....	BB	BB			
Mississippi.....	6.4	(NA)	South Region.....	91.2	(NA)
West South Central Division.....	19.0	10.7	South Atlantic Division.....	FF	(NA)
Oklahoma.....	6.0	1.9	North Carolina.....	EE	(NA)
Texas.....	11.2	4.9	South Carolina.....	EE	(NA)
			East South Central Division.....	GG	(NA)
West Region.....	73.0	24.5	Kentucky.....	FF	(NA)
Mountain Division.....	17.2	9.3	Tennessee.....	CC	(NA)
Colorado.....	8.5	4.6	Mississippi.....	CC	(NA)
Arizona.....	CC	(NA)			
Utah.....	AA	BB	West Region.....	BB	(NA)
Pacific Division.....	55.8	15.2	Pacific Division.....	BB	(NA)
Washington.....	5.0	BB	Washington.....	BB	(NA)
Oregon.....	8.3	AA			
California.....	42.5	11.0	LAWNMOWERS AND SNOW BLOWERS (35247)		
			United States.....	550.2	388.5
PARTS FOR FARM MACHINERY AND EQUIPMENT, SOLD SEPARATELY (35239) <sup>3</sup>					
United States.....	741.4	(NA)	Northeast Region.....	4.0	6.0
			Middle Atlantic Division.....	4.0	3.8
Northeast Region.....	51.3	(NA)	New York.....	AA	(NA)
New England Division.....	BB	(NA)	New Jersey.....	AA	(NA)
Connecticut.....	BB	(NA)	Pennsylvania.....	AA	(NA)
Middle Atlantic Division.....	FF	(NA)			
New York.....	CC	(NA)	North Central Region.....	371.2	316.4
Pennsylvania.....	FF	(NA)	East North Central Division.....	234.5	228.4
			Ohio.....	61.1	86.8
North Central Region.....	621.7	(NA)	Indiana.....	FF	FF
East North Central Division.....	335.8	(NA)	Illinois.....	58.8	43.4
Ohio.....	12.4	(NA)	Michigan.....	FF	FF
Indiana.....	16.2	(NA)	Wisconsin.....	54.6	41.9
Illinois.....	218.9	(NA)	West North Central Division.....	136.7	88.0
Michigan.....	39.6	(NA)	Minnesota.....	FF	FF
Wisconsin.....	48.7	(NA)	Iowa.....	GG	FF
West North Central Division.....	285.9	(NA)	Missouri.....	EE	9.6
Minnesota.....	16.6	(NA)	Nebraska.....	EE	EE
Iowa.....	213.6	(NA)	Kansas.....	2.5	1.8
Missouri.....	EE	(NA)			
North Dakota.....	BB	(NA)	South Region.....	167.0	61.9
South Dakota.....	BB	(NA)	South Atlantic Division.....	65.7	18.3
Nebraska.....	16.2	(NA)	Maryland.....	CC	BB
Kansas.....	18.1	(NA)	West Virginia.....	BB	(NA)
			North Carolina.....	CC	(NA)
South Region.....	51.5	(NA)	South Carolina.....	CC	AA
South Atlantic Division.....	CC	(NA)	Georgia.....	FF	EE
North Carolina.....	2.0	(NA)	Florida.....	BB	1.8
South Carolina.....	AA	(NA)	East South Central Division.....	88.1	40.7
Georgia.....	4.5	(NA)	Kentucky.....	AA	(NA)
East South Central Division.....	FF	(NA)	Tennessee.....	FF	AA
Kentucky.....	EE	(NA)	Alabama.....	EE	CC
Tennessee.....	EE	(NA)	Mississippi.....	FF	29.4
West South Central Division.....	11.7	(NA)	West South Central Division.....	13.2	2.9
Louisiana.....	AA	(NA)	Arkansas.....	BB	(NA)
Oklahoma.....	5.0	(NA)	Oklahoma.....	BB	(NA)
Texas.....	4.4	(NA)	Texas.....	BB	1.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
LAWN MOWERS AND SNOW BLOWERS (35247)—Continued			PARTS FOR LAWN AND GARDEN EQUIPMENT, SOLD SEPARATELY (35249)—Continued		
West Region.....	8.0	4.2	North Central Region—Continued		
Pacific Division.....	CC	4.2	West North Central Division.....	16.5	(NA)
California.....	CC	4.2	Minnesota.....	CC	(NA)
PARTS FOR LAWN AND GARDEN EQUIPMENT, SOLD SEPARATELY (35249) <sup>1</sup>			Missouri.....	BB	(NA)
United States.....	269.6	(NA)	Kansas.....	BB	(NA)
Northeast Region.....	BB	(NA)	South Region.....	97.8	(NA)
New England Division.....	AA	(NA)	South Atlantic Division.....	42.7	(NA)
Connecticut.....	AA	(NA)	Maryland.....	CC	(NA)
Middle Atlantic Division.....	BB	(NA)	North Carolina.....	EE	(NA)
Pennsylvania.....	AA	(NA)	South Carolina.....	AA	(NA)
North Central Region.....	166.9	(NA)	Georgia.....	AA	(NA)
East North Central Division.....	150.4	(NA)	East South Central Division.....	GG	(NA)
Ohio.....	GG	(NA)	Tennessee.....	BB	(NA)
Indiana.....	EE	(NA)	Mississippi.....	FF	(NA)
Illinois.....	9.3	(NA)	West South Central Division.....	BB	(NA)
Michigan.....	FF	(NA)	Texas.....	AA	(NA)
Wisconsin.....	19.2	(NA)	West Region.....	AA	(NA)
			Pacific Division.....	AA	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>The individual product codes included in this class of product for 1972 differ significantly from the 1967 definition. Products shifting into or out of this class of product represent more than 15 percent of the total shipments value at the U.S. level.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ significantly from the 1967 definition. Products shifting into or out of this class of product represent approximately 12 percent of the total 1967 shipments at the U.S. level.

<sup>3</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 2 percent of the total 1967 shipments at the U.S. level.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3511	Turbines and turbine generator sets.....	2,079.7	2,061.0	1,639.5	1,473.0	1,318.9	1,059.3	589.1	754.0
35111	Steam, gas, and hydraulic generator set units and parts....	1,521.6	1,537.5	1,146.8	926.1	817.5	714.5	589.1	489.5
35112	Steam, gas, and hydraulic turbines and parts.....	541.5	521.3	490.4	546.7	501.3	344.7	-	264.5
35110	Steam engines and turbines, n.s.k.....	16.6	2.2	2.3	.2	.1	-	-	-
3519	Internal combustion engines, n.e.c.....	3,353.4	2,926.5	2,761.7	2,885.2	2,475.1	2,187.6	1,423.9	1,132.0
35191	Gasoline engines under 11 horsepower, except aircraft, automobile, etc.....	326.8	279.6	272.7	303.7	278.0	215.5	270.1	230.2
35192	Gasoline engines, 11 horsepower and over, except aircraft, automobile, etc.....	164.0	139.5	162.8	190.0	173.8	171.4	464.4	314.5
35193	Diesel engines, except for truck and buses.....	604.0	495.9	500.0	498.4	465.7	447.9	233.2	157.9
35194	Diesel engines for trucks and buses.....	634.6	496.6	370.6	386.5	285.1	233.2	22.1	17.7
35195	Outboard motors.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	31.0
35196	Gas engines (except gas turbines).....	35.2	19.8	22.5	19.1	20.0	22.6	480.6	379.4
35197	Tank and converted internal combustion engines.....	<sup>2</sup> 425.9	<sup>2</sup> 404.2	<sup>2</sup> 383.1	<sup>2</sup> 416.8	<sup>2</sup> 345.2	<sup>2</sup> 267.1	2.9	1.3
35199	Parts and accessories for internal combustion engines.....	1,144.9	1,090.8	1,045.7	1,055.8	893.0	816.0	-	-
35190	Internal combustion engines, n.s.k.....	18.0	0.1	(4.3)	14.9	14.3	13.9	-	-
3523	Farm machinery and equipment.....	4,143.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35231	Wheel tractors and attachments (except contractors).....	1,215.2	843.8	915.1	908.9	1,009.3	1,040.2	808.4	687.3
35232	Farm dairy machines, sprayers, and dusters, etc.....	<sup>3</sup> 157.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35233	Planting, seeding, and fertilizing machinery.....	172.0	155.5	(157.1)	171.2	172.3	183.0	115.7	96.0
35234	Harrows, rollers, pulverizers, stalk cutters, and similar equipment.....	191.8	233.7	(238.5)	218.9	247.8	281.1	192.8	160.6
35237	Plows and listers.....	85.4	510.2	475.5	477.9	543.3	580.7	395.3	321.4
35235	Harvesting machinery.....	580.4	148.6	154.0	137.2	137.5	148.8	133.8	182.5
35236	Haying machinery.....	184.1	(NA)	(NA)	(NA)	(NA)	458.0	(NA)	(NA)
35238	All other farm machinery and equipment.....	<sup>4</sup> 610.8	(NA)	(NA)	(NA)	(NA)	565.0	( <sup>5</sup> )	( <sup>5</sup> )
35239	Parts for farm machinery and equipment sold separately.....	741.4	691.4	621.8	585.9	569.7	565.0	(71.5)	(34.7)
35230	Farm machinery and equipment, n.s.k.....	204.6	(38.9)	(83.7)	87.8	95.1	156.6	-	-
3524	Lawn and garden equipment.....	1,143.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35242	Garden tractors and motor tillers.....	<sup>3</sup> 321.1	(NA)	(NA)	(NA)	(NA)	196.8	(NA)	(NA)
35247	Lawnmowers and snow blowers.....	550.2	526.0	454.9	508.9	450.0	388.5	268.7	239.8
35249	Parts for lawn and garden equipment, for sale separately...	<sup>3</sup> 269.6	(NA)	(NA)	(NA)	(NA)	<sup>6</sup> 111.4	(NA)	(NA)
35240	Lawn and garden equipment, n.s.k.....	2.5	-	-	-	-	-	-	-

- Represents zero. (NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Product class 35195 is combined with product class 35197 to avoid disclosing data for individual companies.

<sup>3</sup>The individual product codes included in this class of product for 1972 differ significantly from the prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments value at the U.S. level.

<sup>4</sup>The individual product codes included in this class of product for 1972 differ from 1967 definition. Products shifting into or out of this class of product represent approximately 12 percent of the total 1967 shipments at the U.S. level.

<sup>5</sup>For years prior to 1967, parts were included with the individual product classes, whereas in 1967 parts are included in a separate product class 35239.

<sup>6</sup>In 1967, data for the products included in this product class were not collected separately. The total also includes the value of parts for farm machinery and wheel tractors.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3511.--TURBINES AND TURBINE GENERATOR SETS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 860.5	(X)	432.2
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	319.8	114.2	158.2	60.4
331012	Sheet and strip.....	..do.....				
331013	Plates.....	..do.....				
331015	Structural shapes.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel (except stainless):					
331021	Bar and bar shapes.....	..do.....	319.8	114.2	158.2	60.4
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....				
331050	All other stainless steel mill shapes and forms.....	..do.....				
	Copper and copper-base alloy mill shapes and forms:					
335728	Bare wire (for electrical conduction).....	Million lb....	(D)	(D)	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(D)	(D)	(D)	(D)
335143	Plate, sheet, and strip, including military cups and discs....	..do.....				
335152	Pipe and tube.....	..do.....				
335001	Aluminum and aluminum-base alloy mill shapes and forms.....	..do.....	(D)	(D)	(D)	(D)
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy scrap, excluding home scrap.....	..do.....	(D)	(D)	(NA)	(NA)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	..do.....	(D)	(D)	13.1	8.4
332045	Steel.....	..do.....	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	2.5	2.7
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	(D)	(D)	(D)	(D)
359225	Pistons, piston rings, carburetors, valves (intake and exhaust only).....	.....	(D)	(D)	(NA)	(NA)
362120	Integral horsepower motors and generators (1 hp. and over) <sup>2</sup> .....	1,000 units...	(D)	(D)	(D)	(D)
369401	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.).....	.....	(D)	(D)	(NA)	(NA)
	Bearings:					
356218	Ball.....	.....	(X)	(D)	(X)	.9
356201	Roller.....	.....			(X)	1.9
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	405.5	(X)	<sup>1</sup> 337.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	(D)	(X)	20.8
	INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 1,630.8	(X)	1,042.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	45.8	12.7	47.6	11.5
331012	Sheet and strip.....	..do.....	159.6	30.1	98.2	20.0
331013	Plates.....	..do.....	12.5	2.7	11.0	2.1
331015	Structural shapes.....	..do.....	12.4	3.5	1.8	.4
331019	All other carbon steel mill shapes and forms.....	..do.....			5.1	1.6
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	14.0	5.6	9.0	3.8
331029	All other alloy steel mill shapes and forms.....	..do.....	2.8	3.5		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	3.1	4.1	2.8	3.6
331050	All other stainless steel mill shapes and forms.....	..do.....				
	Copper and copper-base alloy mill shapes and forms:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	4.2	2.5	2.9
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.0	.8	(NA)	6.8
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	11.5	12.1		
335152	Pipe and tube.....	..do.....				(NA)
335001	Aluminum and aluminum-base alloy mill shapes and forms.....	..do.....	5.5	2.6	(D)	(D)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES, N.E.C.--Continued						
Materials, parts, containers, and supplies--Continued						
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy scrap (excluding home scrap)....	...do.....	(D)	(D)	(D)	(D)
Castings (rough and semifinished): <sup>2</sup>						
332011	Iron (gray and malleable).....	...do.....	425.6	222.4	295.3	128.8
332045	Steel.....	...do.....	6.0	5.5	5.8	2.8
336100	Aluminum and aluminum-base alloy.....	Million lb....	119.0	86.3	71.0	48.1
336200	Copper and copper-base alloy.....	...do.....	4.9	3.7	(D)	(D)
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	127.0	57.2	65.7	31.3
359225	Pistons, piston rings, carburetor, valves, (intake exhaust only).....	.....	(X)	83.1	(X)	<sup>1</sup> 87.0
362120	Integral horsepower motors and generators (1 hp. and over) <sup>2</sup> .....	1,000 units...	(NA)	11.4	98.6	16.0
369401	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.).....	.....	(X)	40.3	(NA)	(NA)
Bearings:						
356218	Ball.....	.....	(X)	8.5	(X)	5.6
356201	Roller.....	.....	(X)	11.5	(X)	3.1
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	829.0	(X)	<sup>1</sup> 584.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	112.0	(X)	81.5
			Unit of measure	1972		
				Quantity	Delivered cost (million dollars)	
INDUSTRY 3523.--FARM MACHINERY AND EQUIPMENT						
					(X)	<sup>1</sup> 2,221.3
Mill shapes and forms, except castings:						
Carbon steel:						
331011	Bars and bar shapes.....	1,000 s. tons.....		473.3		102.1
331012	Sheet and strip.....	...do.....		786.1		153.8
331013	Plates.....	...do.....		219.5		42.9
331015	Structural shapes.....	...do.....		99.0		20.3
331017	Wire and wire products.....	...do.....		29.9		9.0
331019	All other carbon steel mill shapes and forms.....	...do.....		130.8		33.5
Alloy steel, except stainless:						
331021	Bars and bar shapes.....	...do.....		84.2		20.4
331029	All other alloy steel mill shapes and forms.....	...do.....		26.8		6.2
Stainless steel mill shapes and forms:						
331033	Sheet and strip.....	...do.....		6.0		6.6
331050	All other stainless steel mill shapes and forms.....	...do.....		1.7		2.7
Copper and copper-base alloy:						
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....		(NA)		1.6
335143	Plate, sheet, and strip, including military cups and discs...	...do.....		.2		.2
335152	Pipe and tube.....	...do.....		(NA)		7.7
Aluminum and aluminum-base alloy:						
335301	Sheet, plate, and foil.....	...do.....		3.6		1.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	...do.....		4.6		1.8
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....		2.4		1.0
339915	Metal powders.....	...do.....		(D)		(D)
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.....		47.9		4.1
999811	Iron and steel scrap.....	...do.....		238.1		9.4
Castings (rough and semifinished): <sup>2</sup>						
332011	Iron (gray and malleable).....	...do.....		323.8		160.1
332045	Steel.....	...do.....		15.2		11.5
336100	Aluminum and aluminum-base alloy.....	Million lb.....		7.7		5.8
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.....		72.2		43.3
Engines: <sup>2</sup>						
351920	Diesel and semidiesel.....	1,000 units.....		115.2		106.3
351901	Gasoline and other carburetor.....	...do.....		430.8		51.6
Electric motors and generators: <sup>2</sup>						
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	...do.....		241.5		5.6
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....		141.4		10.0
Bearings:						
356218	Ball.....	.....		(X)		30.4
356201	Roller.....	.....		(X)		20.0
301131	Pneumatic tires.....	1,000 units.....		(NA)		74.6
301141	Inner tubes.....	...do.....		(D)		(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....		(X)		1,059.7
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....		(X)		208.7

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
			(million dollars)	
	INDUSTRY 3524.--LAWN AND GARDEN EQUIPMENT			
	Materials, parts, containers, and supplies, total.....		(X)	1624.5
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	39.9	9.9
331012	Sheet and strip.....	..do.....	155.6	30.8
331013	Plates.....	..do.....	(NA)	.6
331015	Structural shapes.....	..do.....	1.0	.3
331017	Wire and wire products.....	..do.....	(NA)	1.0
331019	All other carbon steel mill shapes and forms.....	..do.....	38.8	11.4
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	(NA)	5.1
331029	All other alloy steel mill shapes and forms.....	..do.....		
331031	Stainless steel mill shapes and forms.....	..do.....		
331033	Sheet and strip.....	..do.....		
331050	All other stainless steel mill shapes and forms.....	..do.....		
	Copper and copper-base alloy:			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	1.1	.5
335152	Pipe and tube.....	..do.....		
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	4.7	1.4
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	..do.....		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....		
339915	Metal powders.....	..do.....	(NA)	2.7
	Castings (rough and semifinished): <sup>2</sup>			
332011	Iron (gray and malleable).....	..do.....	23.0	10.1
332045	Steel.....	..do.....	(NA)	.3
336100	Aluminum and aluminum-base alloy.....	Million lb.....	18.5	9.4
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.....	3.7	2.9
	Engines: <sup>2</sup>			
351920	Diesel and semidiesel.....	1,000 units.....	(D)	(D)
351901	Gasoline and other carburetor.....	..do.....	(D)	(D)
	Electric motors and generators: <sup>2</sup>			
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	..do.....	(NA)	1.6
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(D)	(D)
	Bearings:			
356218	Ball.....	.....	(X)	6.3
356201	Roller.....	.....	(X)	2.2
301131	Pneumatic tires.....	1,000 units.....	(NA)	33.1
301141	Inner tubes.....	..do.....		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	241.0
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	84.9

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>Excludes quantities produced and consumed in the same establishment.<sup>3</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>4</sup>Represents estimates published in MC67(S)-5, Selected Materials Consumed, from data collected in a supplemental survey on form MA-131, Consumption of Materials, Parts, Containers, and Supplies, during 1967. This survey was limited to large establishments in selected chemical, machinery, and equipment industries and results in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3511.--TURBINES AND TURBINE GENERATOR SETS					
	Purchased fuels and electric energy.....		(X)	14.5	(X)	10.3
	Purchased fuels, total.....		(X)	6.0	(X)	6.2
121005	Coal.....	1,000 s. tons.....	-	-	(D)	(D)
331212	Coke.....	do.....	-	-	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	406.7	1.6	976.4	2.1
291141	Distillate.....	do.....	99.7	.5	63.4	.2
291151	Residual.....	do.....	307.0	1.1	913.0	1.9
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.8	1.8	2.4	1.4
960011	Other fuels.....		(X)	2.6	(X)	(D)
975000	Fuels, n.s.k.....		(X)	.1	(X)	.1
960012	Purchased electric energy.....	Million kWh.....	676.8	8.5	395.4	4.1
	Quantity of electric energy generated less quantity sold....	do.....	(S)	-	142.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.8	-	4.5	-
	INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES, N.E.C.					
	Purchased fuels and electric energy.....		(X)	21.0	(X)	14.5
	Purchased fuels, total.....		(X)	8.3	(X)	5.6
121005	Coal.....	1,000 s. tons.....	102.6	1.3	103.8	.7
331212	Coke.....	do.....	(S)	.5	15.1	.6
	Fuel oil, total.....	1,000 bbl (42 gal)	470.1	1.9	357.0	1.4
291141	Distillate.....	do.....	409.6	1.6	312.3	1.0
291151	Residual.....	do.....	60.5	.3	44.7	.4
131300	Natural gas.....	Billion ft <sup>3</sup> .....	6.3	3.6	3.5	1.9
960011	Other fuels.....		(X)	.4	(X)	.3
975000	Fuels, n.s.k.....		(X)	.6	(X)	.7
960012	Purchased electric energy.....	Million kWh.....	1,031.8	12.7	824.0	8.9
	Quantity of electric energy generated less quantity sold....	do.....	(S)	-	44.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.1	-	3.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (S) Withheld because the estimates did not meet publication standards.





# Construction, Mining, and Materials Handling Machinery and Equipment

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# EXPLANATORY TEXT

## CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3531—Construction Machinery and Equipment\*
- 3532—Mining Machinery and Equipment, Except Oilfield Machinery and Equipment\*
- 3533—Oilfield Machinery and Equipment\*
- 3534—Elevators and Moving Stairways
- 3535—Conveyors and Conveying Equipment
- 3536—Hoists, Industrial Cranes, and Monorail Systems\*
- 3537—Industrial Trucks, Tractors, Trailers, and Stackers\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3531.—CONSTRUCTION MACHINERY (Short Title)

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers, concrete mixers, cranes except industrial-plant type, dredging machinery, pavers, and power shovels.

Establishments primarily engaged in manufacturing mining equipment are classified in industry 3532 and well-drilling machinery in industry 3533.

For a detailed list of products of industry 3531, refer to table 6A, product codes 35312 07 to 35319 98.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system. Well point systems, formerly included in industry 3533, Mining Machinery, are now included in this industry.

Value of shipments and other receipts of the Construction Machinery Industry in 1972 totaled \$6,091 million. This included shipments of construction machinery (primary products) valued at \$5,246 million, shipments of other products (secondary products) valued at \$575 million, and miscellaneous receipts (mainly resales) of \$270 million.

Shipments of construction machinery (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent. Secondary products shipped by this industry in 1972 consisted mainly of motor vehicle parts and accessories (\$62 million) and mining machinery (\$46 million).

Shipments of construction machinery (primary products) from establishments classified in industry 3531 in 1972 represented 93 percent (coverage ratio) of these products valued at \$5,654 million shipped by all industries. In 1967, the coverage ratio was 92 percent. Other industries shipping construction machinery consisted mainly of industry 3523, Farm Machinery and Equipment (\$127 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3531, these establishments accounted for less than 1 percent of value of shipments.

### INDUSTRY 3532.—MINING MACHINERY (Short Title)

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery.

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\*Note that the "short title" for this industry is used throughout the report.



Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531; well drilling machinery in industry 3533; and coal and ore conveyors in industry 3535.

For a detailed list of products of industry 3532, refer to table 6A, product codes 35324 25 to 35324 75.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Mining Machinery Industry in 1972 totaled \$771 million. This included shipments of mining machinery (primary products) valued at \$592 million, shipments of other products (secondary products) valued at \$92 million, and miscellaneous receipts (mainly resales) of \$88 million.

Shipments of mining machinery (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 78 percent. Secondary products shipped by this industry in 1972 consisted mainly of construction machinery (\$33 million).

Shipments of mining machinery (primary products) from establishments classified in industry 3532 in 1972 represented 81 percent (coverage ratio) of these products valued at \$730 million shipped by all industries. In 1967, the coverage ratio was 82 percent. Other industries shipping mining machinery and equipment consisted mainly of industry 3531, Construction Machinery (\$46 million) and industry 3533, Oilfield Machinery (\$23 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3532, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3533.—OILFIELD MACHINERY (Short Title)**

This industry comprises establishments primarily engaged in manufacturing machinery and equipment for use in oilfields and gasfields or for drilling water wells. For a detailed list of products of industry 3533, refer to table 6A, product codes 35331 11 to 35334 31.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system. Well-point systems previously included in this industry are now classified in industry 3531, Construction Machinery.

Value of shipments and other receipts of the Oilfield Machinery Industry in 1972 totaled \$1,207 million. This included shipments of oilfield machinery (primary products) valued at \$905 million, shipments of other products (secondary products) valued at \$198 million, and miscellaneous receipts (mainly resales) of \$105 million.

Shipments of oilfield machinery (primary products) in 1972 represented 82 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of valves and pipe fittings (\$44 million) and pumps and pumping equipment (\$24 million).

Shipments of oilfield machinery (primary products) from establishments classified in industry 3533 in 1972 represented 92 percent (coverage ratio) of these products valued at \$980 million shipped by all industries. In 1967, the coverage ratio was also 92 percent. Other industries shipping oilfield machinery and equipment consisted mainly of industry 3494, Valves and Pipe Fittings (\$12 million) and industry 3561, Pumps and Pumping Equipment (\$8 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3533, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS**

This industry comprises establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and moving stairways.

Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535 and farm elevators in industry 3523.

For a detailed list of products of industry 3534, refer to table 6A, product codes 35340 05 to 35340 97.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Elevators and Moving Stairways Industry in 1972 totaled \$484 million. This included shipments of elevators and moving stairways (primary products) valued at \$395 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts of \$76 million.



Shipments of elevators and moving stairways (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of elevators and moving stairways (primary products) from establishments classified in industry 3534 in 1972 represented 96 percent (coverage ratio) of these products valued at \$412 million shipped by all industries. In 1967, the coverage ratio was 95 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3534, these establishments accounted for less than 1 percent of value of shipments.

#### INDUSTRY 3535.—CONVEYORS AND CONVEYING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments.

Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and moving stairways are classified in industry 3534, and overhead traveling cranes and monorail systems are classified in industry 3536.

For a detailed list of products of industry 3535, refer to table 6A, product codes 35351 11 to 35352 11.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Conveyors and Conveying Equipment Industry in 1972 totaled \$970 million. This included shipments of conveyors and conveying equipment (primary products) valued at \$730 million, shipments of other products (secondary products) valued at \$83 million, and miscellaneous receipts (mainly resales) of \$156 million.

Shipments of conveyors and conveying equipment (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of special industry machinery, n.e.c. (\$7 million), hoists, cranes, and monorails (\$6 million), and industrial trucks and tractors (\$6 million).

Shipments of conveyors and conveying equipment (primary products) from establishments classified in industry 3535 in 1972 represented 88 percent (coverage ratio) of these products valued at \$826 million shipped by all industries. In 1967, the coverage ratio was 83 percent. Other industries shipping conveyors and conveying equipment consisted mainly of industry 3531, Construction Machinery (\$13 million), industry 3568, Power Transmission Equipment, N.E.C. (\$8 million), and industry 3559, Special Industry Machinery, N.E.C. (\$6 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3535, these establishments accounted for 1 percent of value of shipments.

#### INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS (Short Title)

This industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments. For a detailed list of products of industry 3536, refer to table 6A, product codes 35361 11 to 35362 57.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system by the inclusion of automatic stacking machines and other parts and attachments. These products were formerly classified in industry 3537, Industrial Trucks and Tractors.

Value of shipments and other receipts of the Hoists, Cranes, and Monorails Industry in 1972 totaled \$527 million. This included shipments of hoists, cranes, and monorails (primary products) valued at \$376 million, shipments of other products (secondary products) valued at \$104 million, and miscellaneous receipts (mainly receipts for repair work) of \$48 million.

Shipments of hoists, cranes, and monorails (primary products) in 1972 represented 78 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 78 percent. Secondary products shipped by this industry in 1972 consisted mainly of construction machinery (\$41 million) and general industrial machinery, n.e.c. (\$8 million).

Shipments of hoists, cranes, and monorails (primary products) from establishments classified in industry 3536 in 1972 represented 84 percent (coverage ratio) of these products

valued at \$446 million shipped by all industries. In 1967, the coverage ratio was 83 percent. Other industries shipping hoists, cranes, and monorails consisted mainly of industry 3531, Construction Machinery (\$12 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3536, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals.

Establishments primarily engaged in manufacturing motor vehicles and motor-vehicle-type trailers are classified in SIC group 371; farm-type wheel tractors in industry 3523; wheel-tractor shovel loaders and tracklaying tractors in industry 3531; and wood pallets and skids in industry 2448.

For a detailed list of products of industry 3537, refer to table 6A, product codes 35371 11 to 35372 83.

The code number for this industry in the 1972 revision of the SIC is unchanged. However, the content of the industry

has been slightly changed from the previous classification system to exclude automatic stackers and parts and attachments for automatic stackers now classified in industry 3536, Hoists, Cranes, and Monorails.

Value of shipments and other receipts of the Industrial Trucks and Tractors Industry in 1972 totaled \$1,035 million. This included shipments of industrial trucks and tractors (primary products) valued at \$916 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts (mainly resales) of \$77 million.

Shipments of industrial trucks and tractors (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of construction machinery (\$13 million).

Shipments of industrial trucks and tractors (primary products) from establishments classified in industry 3537 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,005 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping industrial trucks and tractors consisted mainly of industry 3531, Construction Machinery (\$26 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3537, these establishments accounted for 1 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3531.--CONSTRUCTION MACHINERY															
1972 Census.....	748	387	133.8	1,460.2	98.2	197.4	997.0	3,130.7	3,055.2	6,091.0	159.5	(NA)	1,695.7	90	93
1971 ASM.....	(NA)	(NA)	121.4	1,211.5	87.4	169.4	802.7	2,386.3	2,496.8	4,820.0	137.9	1,765.5	1,510.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	129.8	1,180.5	94.1	186.0	792.3	2,334.3	2,527.9	4,779.8	132.5	1,646.4	1,404.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	138.1	1,202.2	102.2	205.5	824.1	2,454.7	2,555.0	4,882.7	134.7	1,619.1	1,301.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	137.6	1,110.3	101.2	199.3	755.2	2,312.9	2,274.4	4,549.0	146.7	1,551.7	1,111.4	(NA)	(NA)
1967 Census.....	651	358	133.1	989.4	98.6	193.9	673.4	2,056.5	2,103.6	4,138.0	184.9	1,419.6	1,034.2	88	92
1966 ASM.....	(NA)	(NA)	121.2	899.0	92.1	192.8	632.4	1,880.7	1,968.1	3,767.8	129.8	(NA)	929.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	121.5	850.0	90.8	186.0	590.7	1,745.0	1,849.3	3,545.6	105.1	(NA)	854.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	116.3	790.1	86.6	177.7	544.1	1,590.1	1,666.5	3,200.1	74.1	973.5	780.6	(NA)	(NA)
1963 Census.....	617	305	104.5	683.7	76.5	155.3	462.4	1,301.3	1,403.2	2,696.0	56.2	917.7	671.6	91	89
1962 ASM.....	(NA)	(NA)	99.0	631.1	71.3	142.3	416.8	1,142.9	1,284.3	2,369.9	49.8	876.5	624.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	95.0	570.1	67.2	131.9	366.2	972.1	1,154.0	2,150.4	41.4	(NA)	552.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	111.7	636.6	78.1	152.5	412.6	930.7	1,287.2	2,254.2	71.3	(NA)	605.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	112.8	654.9	81.2	166.1	435.2	1,179.9	1,396.0	2,517.4	66.1	(NA)	664.8	(NA)	(NA)
1958 Census.....	579	295	95.3	496.8	66.5	124.6	310.3	1,022.8	1,033.6	2,107.4	45.4	(NA)	577.3	88	90
INDUSTRY 3532.--MINING MACHINERY															
1972 Census.....	240	124	21.4	197.5	14.3	27.4	118.9	393.2	389.0	771.4	13.4	(NA)	237.7	87	81
1971 ASM.....	(NA)	(NA)	22.8	195.9	15.3	28.8	116.4	445.0	429.1	865.2	19.6	232.3	225.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	22.4	184.3	15.4	29.8	111.6	366.2	341.2	696.4	20.9	220.0	195.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	21.5	168.7	14.0	27.3	101.3	299.5	293.9	593.8	*17.0	201.7	170.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	17.6	127.0	12.7	24.7	85.5	226.2	259.0	513.9	*11.6	199.0	161.6	(NA)	(NA)
1967 Census.....	212	110	21.7	156.7	14.9	29.7	95.8	308.3	313.5	622.2	18.4	195.3	171.2	78	82
1966 ASM.....	(NA)	(NA)	21.6	155.1	15.2	31.4	99.2	306.3	343.5	630.4	19.4	(NA)	166.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	20.3	138.1	14.0	28.3	87.6	269.2	286.4	545.1	9.6	(NA)	140.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	18.7	123.6	13.0	25.9	76.3	241.2	239.1	475.7	7.8	144.6	123.7	(NA)	(NA)
1963 Census.....	204	93	16.9	109.5	11.8	23.3	67.7	215.4	203.8	417.6	6.8	139.2	109.4	75	82
1962 ASM.....	(NA)	(NA)	19.1	120.8	11.9	24.0	67.0	205.7	194.8	402.4	6.5	132.7	102.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.8	122.0	12.3	25.1	65.8	220.3	202.6	427.5	7.4	(NA)	109.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	19.6	115.5	12.8	25.3	65.9	209.7	193.8	406.9	*6.3	(NA)	103.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	18.1	104.3	12.0	23.7	61.3	204.6	189.7	399.5	6.0	(NA)	104.1	(NA)	(NA)
1958 Census.....	173	90	17.8	97.0	11.7	22.6	56.4	165.8	167.1	342.0	6.5	(NA)	106.0	72	77
INDUSTRY 3533.--OILFIELD MACHINERY															
1972 Census.....	314	158	35.8	356.6	24.3	49.8	216.8	784.9	460.9	1,207.1	48.0	(NA)	381.4	82	92
1971 ASM.....	(NA)	(NA)	35.9	318.0	24.0	48.7	190.0	677.4	377.3	1,052.8	38.4	429.2	325.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	38.6	323.0	26.0	54.0	197.4	686.0	383.0	1,057.2	41.2	410.7	316.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	36.9	292.5	24.7	52.3	179.2	622.0	372.3	989.2	37.3	374.3	299.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	34.6	266.3	23.4	49.1	161.3	560.3	348.8	906.1	30.7	354.9	277.7	(NA)	(NA)
1967 Census.....	360	174	32.7	240.4	21.7	46.1	143.4	502.9	305.3	799.8	23.7	355.3	257.6	85	92
1966 ASM.....	(NA)	(NA)	36.0	248.3	24.7	53.2	152.4	513.7	338.6	846.0	28.4	(NA)	243.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	34.9	234.2	24.4	52.9	146.2	506.6	328.7	816.2	24.6	(NA)	239.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	30.7	203.7	21.0	45.1	125.1	463.6	298.9	733.8	25.2	294.0	206.7	(NA)	(NA)
1963 Census.....	408	176	29.2	184.3	20.1	41.4	113.5	398.2	264.3	666.5	11.3	272.4	176.8	90	91
1962 ASM.....	(NA)	(NA)	28.5	179.3	18.6	41.0	106.4	381.7	242.2	625.3	*17.6	252.0	172.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	27.2	169.2	17.7	38.5	98.0	352.6	224.2	587.4	*12.8	(NA)	167.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	31.2	187.4	20.1	43.1	108.3	370.0	249.1	615.1	16.1	(NA)	182.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	33.0	194.5	21.9	45.9	114.3	400.1	271.7	654.1	20.2	(NA)	195.0	(NA)	(NA)
1958 Census.....	389	168	31.9	174.7	20.7	41.2	101.9	336.8	241.9	585.3	18.3	(NA)	174.0	92	94
INDUSTRY 3534.--ELEVATORS AND MOVING STAIRWAYS															
1972 Census.....	154	88	15.0	144.5	8.6	17.2	73.7	310.2	181.7	483.6	7.8	(NA)	133.2	97	96
1971 ASM.....	(NA)	(NA)	16.6	149.6	9.9	19.1	77.1	353.5	193.9	539.1	7.5	117.0	130.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	16.0	142.0	9.3	19.2	71.6	319.4	158.8	472.5	6.6	113.2	108.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	13.2	108.4	7.7	15.6	58.6	283.1	132.1	412.0	8.9	105.1	103.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	14.1	109.5	8.8	17.8	64.1	202.1	135.6	336.1	6.6	102.7	96.9	(NA)	(NA)
1967 Census.....	144	78	13.9	107.6	8.8	18.1	63.4	<sup>2</sup> 196.1	128.4	<sup>2</sup> 319.7	3.9	97.1	96.6	94	95
1966 ASM.....	(NA)	(NA)	14.0	105.1	8.5	17.8	58.1	<sup>2</sup> 235.5	125.7	<sup>2</sup> 352.6	4.3	(NA)	92.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	13.4	99.6	8.1	17.1	55.2	217.8	120.8	339.1	11.3	(NA)	74.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.4	95.3	8.1	15.8	50.0	234.1	123.2	347.4	5.2	72.5	74.3	(NA)	(NA)
1963 Census.....	142	74	12.4	88.4	7.4	15.5	49.6	201.5	114.7	318.6	3.3	67.6	66.0	97	95
1962 ASM.....	(NA)	(NA)	*9.5	*72.2	*5.5	*11.5	*38.8	*195.9	*111.5	*312.5	*1.6	64.9	*59.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*9.8	*67.0	*5.5	*11.5	*36.0	*179.5	*88.6	*265.1	*2.8	(NA)	*63.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	8.9	59.7	5.3	10.5	31.8	149.7	83.6	235.4	1.3	(NA)	47.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.3	55.9	5.5	11.7	31.6	135.2	80.5	216.8	*1.1	(NA)	48.5	(NA)	(NA)
1958 Census.....	144	76	9.6	55.7	5.9	11.8	31.2	126.3	71.1	192.8	2.3	(NA)	48.4	97	80

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3535.--CONVEYORS AND CONVEYING EQUIPMENT															
1972 Census.....	494	245	27.3	276.2	16.5	32.7	139.4	541.7	431.4	969.8	13.2	(NA)	152.5	90	88
1971 ASM.....	(NA)	(NA)	25.2	231.5	15.1	30.3	115.9	462.6	388.9	840.2	14.6	194.4	151.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	27.6	244.2	16.8	34.3	126.6	446.6	403.2	856.2	*16.0	186.6	140.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.2	243.8	17.0	36.2	127.7	466.6	379.3	836.4	*20.1	160.2	149.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	26.7	217.4	16.1	33.7	111.4	413.1	336.3	752.9	10.4	143.1	124.1	(NA)	(NA)
1967 Census.....	446	216	27.4	213.3	16.8	35.0	112.0	415.8	353.4	763.0	13.6	141.6	129.2	85	83
1966 ASM.....	(NA)	(NA)	25.8	201.1	16.3	34.8	110.6	386.0	345.6	725.4	12.3	(NA)	119.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	25.0	182.0	15.3	32.5	97.5	351.3	319.6	655.5	9.0	(NA)	106.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	22.2	161.7	13.7	29.3	85.2	306.6	261.1	567.1	8.0	116.1	85.2	(NA)	(NA)
1963 Census.....	454	175	20.8	140.6	12.6	26.3	74.0	270.5	231.1	494.6	6.1	111.3	79.3	82	83
1962 ASM.....	(NA)	(NA)	21.2	137.0	12.7	25.2	70.9	249.2	215.8	460.3	9.1	105.0	76.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.9	121.4	11.5	23.7	61.4	215.3	181.9	399.8	*6.1	(NA)	68.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	21.5	132.5	12.6	26.5	69.2	240.0	203.9	439.7	6.0	(NA)	73.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	21.4	129.6	13.0	26.1	67.7	229.4	198.5	425.4	4.5	(NA)	69.8	(NA)	(NA)
1958 Census.....	420	150	20.8	119.4	12.7	25.6	62.6	192.9	187.0	385.7	7.2	(NA)	63.1	81	78
INDUSTRY 3536.--HOISTS, CRANES, AND MONORAILS															
1972 Census, new SIC <sup>3</sup> .....	188	92	16.3	160.9	10.7	20.8	96.2	274.7	251.7	527.3	13.8	(NA)	127.3	78	84
1972 Census, old SIC <sup>3</sup> .....	183	89	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(D)	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	15.8	138.8	10.3	19.2	83.5	246.2	216.7	453.9	8.3	153.5	130.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	18.7	161.4	12.5	24.6	100.8	309.4	230.2	526.8	10.2	148.0	135.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	18.1	153.8	12.7	25.7	99.8	269.8	236.3	502.6	8.9	137.5	115.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	17.7	148.0	12.3	25.0	95.4	261.0	230.8	481.8	12.5	132.0	116.0	(NA)	(NA)
1967 Census.....	141	71	16.8	134.3	11.6	24.1	88.0	241.6	202.1	444.4	11.3	119.6	96.2	78	83
1966 ASM.....	(NA)	(NA)	16.5	130.5	11.7	25.2	86.1	236.7	205.2	437.3	10.1	(NA)	99.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.3	76.4	7.5	16.0	50.7	144.8	132.9	270.2	4.6	(NA)	56.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	9.9	72.2	7.1	15.3	46.3	119.1	119.4	237.7	3.2	75.9	46.6	(NA)	(NA)
1963 Census.....	120	56	9.6	64.3	6.8	14.0	41.4	112.3	110.9	220.0	2.6	73.4	45.4	80	70
1962 ASM.....	(NA)	(NA)	8.5	54.0	5.8	11.7	32.6	88.4	77.2	166.0	3.3	71.7	38.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.5	50.7	5.7	11.5	30.1	82.2	77.6	162.6	3.3	(NA)	41.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.6	57.7	6.8	13.5	25.3	93.1	91.6	188.2	4.5	(NA)	45.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	8.8	50.9	6.2	12.3	30.7	85.9	82.1	164.3	2.6	(NA)	47.6	(NA)	(NA)
1958 Census.....	81	54	9.5	53.6	6.6	13.0	32.8	92.8	85.5	184.7	5.1	(NA)	43.7	79	78
INDUSTRY 3537.--INDUSTRIAL TRUCKS AND TRACTORS															
1972 Census.....	380	135	25.8	259.5	16.8	32.9	148.3	524.7	519.5	1,035.4	19.7	(NA)	262.1	96	91
1971 ASM.....	(NA)	(NA)	25.7	219.0	16.2	30.4	119.7	460.6	424.8	880.6	29.4	275.9	238.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	28.1	225.0	17.6	34.1	127.3	418.3	482.7	911.5	43.0	299.4	246.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.4	243.2	18.3	37.8	143.5	522.6	503.3	985.3	33.3	200.9	259.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	26.4	204.2	17.0	34.1	116.9	409.2	412.8	814.4	19.3	176.0	201.2	(NA)	(NA)
1967 Census.....	351	140	27.0	199.7	17.7	36.5	115.6	408.6	381.7	778.0	23.9	160.0	193.4	93	86
1966 ASM.....	(NA)	(NA)	26.3	189.9	17.8	37.9	116.8	404.9	420.0	792.1	18.4	(NA)	184.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	21.5	152.6	14.2	31.0	92.3	321.2	318.9	627.7	11.6	(NA)	131.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	19.9	130.8	15.0	28.1	76.2	274.5	266.9	533.0	9.4	128.4	117.9	(NA)	(NA)
1963 Census.....	314	108	17.6	110.4	11.5	23.8	64.5	233.1	215.5	447.0	6.7	119.3	97.6	90	81
1962 ASM.....	(NA)	(NA)	16.5	100.4	10.8	22.2	58.1	175.4	190.7	360.6	4.1	113.2	88.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	15.7	90.8	9.9	20.3	49.9	144.8	167.5	319.4	*4.4	(NA)	84.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	17.5	100.7	11.6	24.1	59.5	169.3	194.8	366.0	6.0	(NA)	89.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	15.3	88.4	10.0	21.1	52.1	170.4	176.6	333.2	4.3	(NA)	91.2	(NA)	(NA)
1958 Census.....	262	96	14.8	76.2	9.5	18.1	43.0	117.5	140.4	269.3	3.3	(NA)	75.4	93	84

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3531	Industry 3532	Industry 3533	Industry 3534	Industry 3535	Industry 3536	Industry 3537
1972.....	644	220	257	135	457	176	363
1967.....	578	197	309	130	416	139	337
1963.....	561	198	373	126	428	120	304

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>In industry 3534, the figures for 1967 and later years are not comparable with those in earlier years because some companies included construction receipts with value of shipments in 1966 and prior years. Value added by manufacture and value of shipments for 1967 would have been \$50 million to \$75 million higher had they been on a comparable basis with earlier years.

<sup>3</sup>The SIC number and title are unchanged for industry 3536. However, the content of this industry has been changed slightly by the inclusion of automatic stacking machines and other parts and attachments. The effect of the change is estimated to be approximately 4 percent of the total value of shipments for industry 3536 for 1972.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3531.--CONSTRUCTION MACHINERY											
1972 Census.....	10,913	(NA)	73	2,010	5.05	.50	.74	(NA)	23,398	47	15.84
1971 ASM.....	9,979	14,540	72	1,938	4.74	.52	.77	.37	19,657	51	14.09
1970 ASM.....	9,095	12,680	73	1,977	4.26	.53	.78	.34	17,984	51	12.55
1969 ASM.....	8,705	11,720	74	2,011	4.01	.52	.77	.33	17,775	49	11.95
1968 ASM.....	8,069	11,280	74	1,969	3.79	.50	.74	.34	16,809	48	11.61
1967 Census.....	7,434	10,670	74	1,967	3.47	.51	.75	.34	15,452	48	10.60
1966 ASM.....	7,416	(NA)	76	2,095	3.28	.52	.76	(NA)	15,513	48	9.75
1965 ASM.....	6,998	(NA)	75	2,049	3.18	.52	.76	(NA)	14,366	49	9.38
1964 ASM.....	6,796	8,370	75	2,051	3.06	.52	.77	.30	13,678	50	8.95
1963 Census.....	6,542	8,780	73	2,029	2.98	.52	.77	.34	12,450	53	8.38
1962 ASM.....	6,375	8,850	72	1,996	2.93	.54	.81	.37	11,545	55	8.03
1961 ASM.....	6,004	(NA)	71	1,963	2.78	.54	.80	(NA)	10,238	59	7.37
1960 ASM.....	5,699	(NA)	70	1,953	2.71	.57	.85	(NA)	8,331	68	6.10
1959 ASM.....	5,805	(NA)	72	2,044	2.62	.55	.81	(NA)	10,459	56	7.11
1958 Census.....	5,212	(NA)	70	1,874	2.49	.49	.73	(NA)	10,732	49	8.21
INDUSTRY 3532.--MINING MACHINERY											
1972 Census.....	9,229	(NA)	67	1,916	4.34	.50	.76	(NA)	18,374	50	14.35
1971 ASM.....	8,592	10,190	67	1,882	4.04	.50	.72	.27	19,518	44	15.45
1970 ASM.....	8,228	9,820	69	1,935	3.75	.49	.75	.32	16,348	50	12.29
1969 ASM.....	7,847	9,380	65	1,950	3.71	.49	.78	.34	13,930	56	10.97
1968 ASM.....	7,216	11,310	72	1,945	3.46	.50	.75	.39	12,852	56	9.16
1967 Census.....	7,214	9,000	69	1,992	3.23	.50	.76	.31	14,197	51	10.38
1966 ASM.....	7,197	(NA)	70	2,064	3.16	.54	.79	(NA)	14,214	51	9.77
1965 ASM.....	6,812	(NA)	69	2,018	3.10	.53	.78	(NA)	13,282	51	9.52
1964 ASM.....	6,620	7,730	70	1,993	2.94	.50	.76	.30	12,918	51	9.30
1963 Census.....	6,477	8,240	70	1,971	2.91	.49	.75	.33	12,738	51	9.25
1962 ASM.....	6,331	6,950	62	2,026	2.79	.48	.78	.33	10,776	59	8.57
1961 ASM.....	6,157	(NA)	62	2,037	2.62	.47	.76	(NA)	11,116	55	8.77
1960 ASM.....	5,897	(NA)	66	1,969	2.61	.48	.76	(NA)	10,706	55	8.29
1959 ASM.....	5,761	(NA)	66	1,973	2.59	.47	.74	(NA)	11,300	51	8.62
1958 Census.....	5,445	(NA)	65	1,936	2.50	.49	.77	(NA)	9,312	58	7.34
INDUSTRY 3533.--OILFIELD MACHINERY											
1972 Census.....	9,961	(NA)	68	2,049	4.35	.38	.68	(NA)	21,924	45	15.76
1971 ASM.....	8,858	11,960	67	2,029	3.90	.36	.66	.41	18,869	47	13.91
1970 ASM.....	8,368	10,640	67	2,077	3.66	.36	.67	.39	17,772	47	12.70
1969 ASM.....	7,927	10,140	67	2,117	3.43	.38	.67	.38	16,856	47	11.89
1968 ASM.....	7,697	10,260	68	2,098	3.29	.38	.68	.39	16,194	48	11.41
1967 Census.....	7,357	10,870	67	2,119	3.11	.38	.68	.44	15,395	48	10.92
1966 ASM.....	6,899	(NA)	69	2,151	2.87	.40	.69	(NA)	14,270	48	9.66
1965 ASM.....	6,703	(NA)	70	2,166	2.77	.40	.69	(NA)	14,500	46	9.58
1964 ASM.....	6,624	9,580	68	2,147	2.77	.41	.68	.40	15,078	44	10.28
1963 Census.....	6,311	9,330	69	2,059	2.74	.40	.67	.41	13,634	46	9.62
1962 ASM.....	6,301	8,840	65	2,207	2.59	.39	.67	.40	13,413	47	9.30
1961 ASM.....	6,213	(NA)	65	2,176	2.54	.38	.67	(NA)	12,947	48	9.15
1960 ASM.....	6,015	(NA)	65	2,139	2.51	.40	.71	(NA)	11,874	51	8.59
1959 ASM.....	5,887	(NA)	66	2,092	2.49	.42	.71	(NA)	12,108	49	8.72
1958 Census.....	5,480	(NA)	65	1,989	2.47	.41	.71	(NA)	10,565	52	8.17
INDUSTRY 3534.--ELEVATORS AND MOVING STAIRWAYS											
1972 Census.....	9,633	(NA)	57	2,000	4.28	.38	.67	(NA)	20,680	47	18.03
1971 ASM.....	9,012	7,050	60	1,929	4.04	.36	.64	.22	21,295	42	18.51
1970 ASM.....	8,875	7,070	58	2,065	3.73	.34	.64	.24	19,963	45	16.64
1969 ASM.....	8,212	7,960	58	2,026	3.76	.32	.58	.26	21,447	38	18.15
1968 ASM.....	7,766	7,280	62	2,023	3.60	.40	.73	.31	14,333	54	11.35
1967 Census.....	7,713	6,990	63	2,049	3.51	<sup>1</sup> .40	<sup>1</sup> .74	.30	<sup>1</sup> 14,064	<sup>1</sup> 55	<sup>1</sup> 10.86
1966 ASM.....	7,528	(NA)	61	2,109	3.26	.36	.65	(NA)	16,871	45	13.22
1965 ASM.....	7,457	(NA)	60	2,119	3.23	.36	.65	(NA)	16,299	46	12.76
1964 ASM.....	7,107	5,410	60	1,959	3.17	.35	.63	.21	17,454	41	14.84
1963 Census.....	7,132	5,450	60	2,081	3.21	.36	.64	.21	16,261	44	13.04
1962 ASM.....	7,604	6,830	58	2,105	3.36	.36	.59	.21	20,638	37	16.96
1961 ASM.....	6,850	(NA)	56	2,091	3.14	.33	.59	(NA)	18,349	37	15.68
1960 ASM.....	6,706	(NA)	60	1,971	3.03	.36	.61	(NA)	16,807	40	14.30
1959 ASM.....	5,995	(NA)	59	2,115	2.69	.37	.63	(NA)	14,504	41	11.54
1958 Census.....	5,782	(NA)	61	2,005	2.65	.37	.66	(NA)	13,118	44	10.73

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3535.--CONVEYORS AND CONVEYING EQUIPMENT											
1972 Census.....	10,117	(NA)	60	1,982	4.26	.44	.73	(NA)	19,842	51	16.57
1971 ASM.....	9,187	7,710	60	2,007	3.83	.46	.74	.23	18,357	50	15.27
1970 ASM.....	8,848	6,760	61	2,042	3.69	.47	.76	.22	16,181	55	13.02
1969 ASM.....	8,645	5,680	60	2,129	3.53	.45	.74	.19	16,546	52	12.89
1968 ASM.....	8,142	5,360	60	2,093	3.31	.45	.74	.19	15,472	53	12.26
1967 Census.....	7,775	5,170	61	2,082	3.20	.46	.74	.19	15,155	51	11.87
1966 ASM.....	7,803	(NA)	63	2,140	3.17	.48	.75	(NA)	14,976	52	11.08
1965 ASM.....	7,279	(NA)	61	2,115	3.00	.49	.77	(NA)	14,051	52	10.82
1964 ASM.....	7,278	5,230	62	2,141	2.91	.46	.75	.20	13,798	53	10.46
1963 Census.....	6,768	5,350	61	2,081	2.81	.47	.75	.23	13,017	52	10.28
1962 ASM.....	6,455	4,950	60	1,984	2.81	.47	.77	.23	11,738	55	9.88
1961 ASM.....	6,115	(NA)	58	2,060	2.59	.46	.76	(NA)	10,445	56	9.09
1960 ASM.....	6,166	(NA)	58	2,109	2.61	.46	.77	(NA)	11,167	55	9.06
1959 ASM.....	6,044	(NA)	61	2,004	2.59	.47	.77	(NA)	10,701	56	8.78
1958 Census.....	5,745	(NA)	61	2,015	2.45	.48	.79	(NA)	9,279	62	7.54
INDUSTRY 3536.--HOISTS, CRANES, AND MONORAILS											
1972 Census, new SIC <sup>2</sup> ..	9,871	(NA)	66	1,944	4.63	.48	.78	(NA)	16,853	59	13.21
1972 Census, old SIC <sup>2</sup> ..	9,740	(NA)	65	1,951	4.50	.47	.78	(NA)	16,880	58	13.22
1971 ASM.....	8,785	9,720	65	1,864	4.35	.48	.78	.34	15,582	56	12.82
1970 ASM.....	8,631	7,220	67	1,968	4.10	.44	.74	.28	16,545	52	12.58
1969 ASM.....	8,497	7,600	70	2,024	3.88	.47	.78	.27	14,906	57	10.50
1968 ASM.....	8,362	7,460	69	2,033	3.82	.48	.79	.27	14,746	57	10.44
1967 Census.....	7,985	7,120	69	2,069	3.65	.45	.76	.27	14,369	56	10.03
1966 ASM.....	7,910	(NA)	71	2,144	3.42	.47	.77	(NA)	14,348	55	9.40
1965 ASM.....	7,447	(NA)	73	2,145	3.17	.49	.77	(NA)	14,126	53	9.06
1964 ASM.....	7,276	7,670	71	2,165	3.03	.50	.81	.32	12,007	61	7.80
1963 Census.....	6,709	7,650	71	2,063	2.96	.50	.80	.33	11,719	57	8.03
1962 ASM.....	6,377	8,440	68	2,030	2.78	.47	.79	.43	10,446	61	7.55
1961 ASM.....	5,983	(NA)	67	2,040	2.60	.48	.79	(NA)	9,707	62	7.13
1960 ASM.....	6,005	(NA)	71	1,979	2.61	.49	.79	(NA)	9,690	62	6.88
1959 ASM.....	5,791	(NA)	71	1,973	2.50	.50	.81	(NA)	9,777	59	7.00
1958 Census.....	5,627	(NA)	69	1,981	2.53	.46	.75	(NA)	9,744	58	7.14
INDUSTRY 3537.--INDUSTRIAL TRUCKS AND TRACTORS											
1972 Census.....	10,058	(NA)	65	1,958	4.51	.50	.75	(NA)	20,337	49	15.95
1971 ASM.....	8,521	10,740	63	1,877	3.94	.48	.73	.31	17,922	48	15.15
1970 ASM.....	8,007	10,650	63	1,938	3.73	.53	.78	.33	14,886	54	12.27
1969 ASM.....	8,563	7,070	64	2,066	3.80	.51	.76	.20	18,401	47	13.83
1968 ASM.....	7,735	6,670	64	2,006	3.43	.51	.76	.22	15,500	50	12.00
1967 Census.....	7,383	5,930	66	2,058	3.17	.49	.75	.21	15,105	49	11.20
1966 ASM.....	7,223	(NA)	68	2,126	3.08	.53	.77	(NA)	15,397	47	10.69
1965 ASM.....	7,104	(NA)	66	2,186	2.97	.51	.75	(NA)	14,954	48	10.36
1964 ASM.....	6,567	6,450	75	1,873	2.71	.50	.75	.24	13,786	48	9.78
1963 Census.....	6,286	6,780	65	2,079	2.71	.48	.73	.27	13,268	47	9.79
1962 ASM.....	6,093	6,860	66	2,051	2.61	.53	.81	.31	10,648	57	7.89
1961 ASM.....	5,796	(NA)	63	2,058	2.45	.52	.81	(NA)	9,243	63	7.13
1960 ASM.....	5,762	(NA)	66	2,087	2.46	.53	.81	(NA)	9,688	59	7.01
1959 ASM.....	5,786	(NA)	66	2,107	2.47	.53	.80	(NA)	11,157	52	8.08
1958 Census.....	5,154	(NA)	65	1,898	2.37	.52	.80	(NA)	7,947	65	6.48

(NA) Not available.

<sup>1</sup>See footnote 2, table 1A.<sup>2</sup>See footnote 3, table 1A.



TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(1,000)	(million dollars)			
New industry 3536.--Hoists, Cranes, and Monorails <sup>1</sup> .....	188	92	16.3	274.7	527.3	(X)	(X)	(X)	(X)	(X)
Old industry 3536.--Hoists, Cranes, and Monorails.....	177	83	15.7	263.1	503.5	177	83	15.7	263.1	503.5
Old industry 3537.--Industrial Trucks and Tractors.....	11	9	.6	11.6	23.8	-	-	-	-	-

- Represents zero. (X) Not applicable.

<sup>1</sup>See footnote 3, table 1A.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
3531-- CONSTRUCTION MACHINERY													
UNITED STATES. . . . .	748	387	133.8	1 460.2	98.2	197.4	997.0	3 130.7	3 055.2	6 091.0	159.5	133.1	2 056.5
NORTHEAST REGION . . . . .	112	46	9.3	98.5	6.6	13.8	66.2	227.9	211.2	432.4	(0)	7.1	117.0
NEW ENGLAND DIVISION . . . . .	27	10	.7	6.0	.5	.9	3.4	14.0	11.5	24.6	(0)	.4	4.4
MAINE . . . . .	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MASSACHUSETTS. . . . . E1	18	5	.8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.8
CONNECTICUT. . . . .	5	3	.2	1.5	.1	.2	.8	4.0	4.0	7.9	(0)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	85	36	8.6	92.4	6.2	12.8	62.8	213.8	199.7	407.9	(0)	6.8	112.6
NEW YORK . . . . .	36	11	1.8	17.3	1.2	2.4	11.3	29.6	42.0	71.5	(0)	1.6	26.7
NEW JERSEY . . . . . E3	15	6	.5	4.8	.3	.6	2.8	14.1	14.6	27.8	(0)	.4	5.2
PENNSYLVANIA . . . . .	34	19	6.3	70.3	4.6	9.8	48.8	170.1	143.1	308.5	(0)	4.7	80.7
NORTH CENTRAL REGION . . . . .	331	211	102.2	1 150.8	75.5	151.1	797.2	2 468.8	2 414.6	4 817.1	115.9	110.2	1 737.3
EAST NORTH CENTRAL DIVISION. . . . .	221	146	80.9	915.3	60.4	119.6	638.1	1 990.6	1 947.7	3 894.8	101.2	91.7	1 427.7
OHIO . . . . .	70	41	14.1	155.0	9.7	19.8	99.7	282.8	320.5	600.9	8.5	14.9	219.7
INDIANA . . . . .	21	16	4.3	41.3	3.2	6.0	28.2	88.8	92.5	179.1	2.2	4.3	57.5
ILLINOIS . . . . .	59	38	45.6	539.1	34.6	67.4	380.4	1 257.1	1 087.2	2 321.9	76.2	51.5	835.9
MICHIGAN . . . . .	26	13	5.9	63.6	4.6	8.7	47.4	123.2	209.4	324.4	4.2	10.3	152.5
WISCONSIN. . . . .	45	38	11.0	116.3	8.3	17.6	82.4	238.6	238.0	468.4	10.1	10.6	162.1
WEST NORTH CENTRAL DIVISION. . . . .	110	65	21.2	235.5	15.2	31.5	159.2	478.2	466.9	922.3	14.7	18.5	309.7
MINNESOTA. . . . .	40	22	5.6	54.1	4.0	8.0	35.2	88.0	98.1	186.6	2.3	5.2	76.1
IOWA . . . . .	31	20	12.1	147.9	8.8	18.7	104.6	314.2	296.0	589.8	9.1	10.6	202.5
MISSOURI . . . . .	15	10	1.4	14.3	1.0	1.9	8.6	29.2	27.6	54.2	1.1	1.1	11.2
NORTH DAKOTA . . . . .	3	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.88	(0)
NEBRASKA . . . . . E6	7	4	.3	2.8	.2	.5	1.9	5.5	5.4	11.0	(0)	.3	3.4
KANSAS . . . . .	10	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8	9.8
SOUTH REGION . . . . .	162	75	14.3	128.2	10.3	21.5	81.1	258.0	293.5	537.7	(0)	9.6	125.3
SOUTH ATLANTIC DIVISION. . . . . E1	54	19	3.5	29.6	2.4	4.9	18.4	60.4	70.8	126.0	(0)	2.4	31.7
MARYLAND . . . . . E6	6	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8B	(0)
VIRGINIA . . . . .	3	2	.8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
NORTH CAROLINA . . . . .	7	2	.2	2.0	.1	.2	.7	3.8	2.9	6.7	(0)	.88	(0)
SOUTH CAROLINA . . . . .	7	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.88	(0)
GEORGIA. . . . .	11	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
FLORIDA. . . . . E1	14	4	.4	3.1	.3	.7	1.9	5.0	4.2	9.2	(0)	.2	2.0
EAST SOUTH CENTRAL DIVISION. . . . .	25	12	1.5	12.5	1.2	2.4	9.2	24.1	22.9	46.8	(0)	1.8	23.4
TENNESSEE. . . . .	8	4	.5	4.2	.4	.8	3.3	10.2	11.4	21.8	(0)	CC	(0)
ALABAMA. . . . . E1	8	6	.7	6.1	.6	1.2	4.2	11.0	7.4	18.0	(0)	.7	10.8
MISSISSIPPI. . . . .	6	2	.8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8B	(0)
WEST SOUTH CENTRAL DIVISION. . . . .	83	44	9.3	86.2	6.7	14.2	53.5	173.5	199.8	364.9	(0)	5.4	70.2
LOUISIANA. . . . . E3	11	6	.6	5.3	.5	1.0	3.9	13.6	8.4	20.7	(0)	.8B	(0)
OKLAHOMA . . . . .	25	14	3.8	38.1	2.5	5.2	20.3	76.6	110.7	181.4	(0)	2.6	31.4
TEXAS. . . . . E1	43	23	4.8	42.4	3.7	7.9	29.2	82.7	80.1	161.5	(0)	2.5	34.5
WEST REGION. . . . .	143	55	8.1	82.8	5.7	11.1	52.4	176.0	135.9	303.8	5.9	6.2	76.9
MOUNTAIN DIVISION. . . . .	20	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.5	7.1
COLORADO . . . . .	8	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
UTAH . . . . .	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
PACIFIC DIVISION . . . . .	123	46	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	5.7	69.8
WASHINGTON . . . . .	21	9	1.5	16.0	1.2	2.3	12.1	23.9	23.8	46.3	(0)	1.6	20.3
OREGON . . . . .	22	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	5.7
CALIFORNIA . . . . .	79	29	4.3	45.0	2.8	5.5	26.1	105.3	75.2	177.9	(0)	3.6	43.7

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3532-- MINING MACHINERY</b>													
UNITED STATES. . . . .	240	124	21.4	197.5	14.3	27.4	118.9	393.2	389.0	771.4	13.4	21.7	308.3
NORTHEAST REGION. . . . .	50	27	6.0	56.1	3.8	7.5	32.3	102.8	132.6	231.6	(0)	6.1	94.0
NEW ENGLAND DIVISION. . . . .	5	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.3	13.1
NEW HAMPSHIRE. . . . .	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MIDDLE ATLANTIC DIVISION. . . . .	45	24	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.8	80.9
NEW JERSEY. . . . .	5	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
PENNSYLVANIA. . . . .	33	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.6	64.9
NORTH CENTRAL REGION. . . . .	70	37	7.9	75.3	5.3	9.8	45.4	129.8	108.6	233.7	(0)	9.7	127.9
EAST NORTH CENTRAL DIVISION. . . . .	54	30	6.5	61.4	4.2	8.1	35.6	108.3	85.0	187.9	(0)	8.1	106.2
OHIO. . . . .	24	13	2.2	18.8	1.4	2.8	11.3	42.0	20.9	60.9	(0)	2.3	32.7
INDIANA. . . . .	6	3	.2	1.5	.1	.2	.9	2.6	1.8	4.4	(0)	.2	2.1
ILLINOIS. . . . .	11	7	.9	8.4	.6	1.2	4.8	11.9	13.6	24.5	(0)	EE	(0)
MICHIGAN. . . . .	7	2	.3	3.2	.2	.4	1.8	6.3	4.4	10.5	(0)	.3	2.8
WISCONSIN. . . . .	6	5	2.8	29.6	1.8	3.4	16.7	45.5	44.3	87.6	(0)	FF	(0)
WEST NORTH CENTRAL DIVISION. . . . .	16	7	1.4	13.9	1.1	1.7	9.9	21.5	23.5	45.8	(0)	1.6	21.7
IDWA. . . . .	3	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	8.1
KANSAS. . . . .	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
SOUTH REGION. . . . .	73	42	4.0	31.2	2.9	5.5	20.1	79.3	89.5	166.0	(0)	2.6	36.9
SOUTH ATLANTIC DIVISION. . . . .	46	25	2.7	19.9	1.9	3.5	12.4	55.6	59.4	111.7	(0)	1.9	28.3
VIRGINIA. . . . .	15	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	6.1
WEST VIRGINIA. . . . .	27	16	1.9	14.9	1.4	2.5	9.4	40.7	44.0	81.9	(0)	EE	(0)
SOUTH CAROLINA. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	12	8	.7	6.2	.5	1.0	4.2	11.3	15.5	27.9	(0)	88	(0)
KENTUCKY. . . . .	9	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
WEST SOUTH CENTRAL DIVISION. . . . .	15	9	.6	5.1	.5	1.0	3.5	12.4	14.6	26.4	(0)	88	(0)
TEXAS. . . . .	13	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
WEST REGION. . . . .	47	18	3.5	34.9	2.3	4.6	21.1	81.3	58.3	140.1	(0)	3.2	49.5
MOUNTAIN DIVISION. . . . .	19	11	2.6	24.6	1.8	3.5	16.3	57.4	34.9	92.7	(0)	2.7	40.0
COLORADO. . . . .	8	6	2.0	19.6	1.3	2.9	12.4	44.6	24.9	69.3	(0)	1.8	32.0
UTAH. . . . .	4	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
PACIFIC DIVISION. . . . .	26	7	1.0	10.3	.5	1.0	4.8	23.8	23.4	47.4	(0)	.5	9.4
OREGON. . . . .	4	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA. . . . .	21	4	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	8.2
<b>3533-- DILFIELD MACHINERY</b>													
UNITED STATES. . . . .	314	158	35.8	356.6	24.3	49.8	216.8	784.9	460.9	1 207.1	48.0	32.7	502.9
NORTHEAST REGION. . . . .	13	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.8	25.3
MIDDLE ATLANTIC DIVISION. . . . .	11	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
PENNSYLVANIA. . . . .	5	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.4	20.3
NORTH CENTRAL REGION. . . . .	23	2	.3	2.2	.2	.4	1.3	6.0	3.2	9.2	.1	1.0	14.4
SOUTH REGION. . . . .	223	116	28.8	285.0	19.6	41.3	176.0	602.8	375.8	946.8	(0)	25.9	379.5
WEST SOUTH CENTRAL DIVISION. . . . .	217	115	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	25.1	372.0
LOUISIANA. . . . .	22	10	1.7	15.4	1.3	2.7	10.3	29.3	13.3	42.3	(0)	EE	(0)
OKLAHOMA. . . . .	40	15	3.6	32.1	2.5	5.0	20.2	66.9	58.8	119.3	(0)	3.7	48.0
TEXAS. . . . .	153	90	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	20.3	311.6
WEST REGION. . . . .	55	31	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.0	83.8
MOUNTAIN DIVISION. . . . .	11	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
COLORADO. . . . .	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
UTAH. . . . .	2	1	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
PACIFIC DIVISION. . . . .	44	28	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
CALIFORNIA. . . . .	43	28	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
<b>3534-- ELEVATORS AND MOVING STAIRWAYS</b>													
UNITED STATES. . . . .	154	88	15.0	144.5	8.6	17.2	73.7	310.2	181.7	483.6	7.8	13.9	196.1
NORTHEAST REGION. . . . .	43	26	7.2	72.6	4.2	8.3	38.4	167.2	75.2	238.5	(0)	7.5	101.9
NEW ENGLAND DIVISION. . . . .	10	6	.5	5.5	.3	.6	3.2	7.6	6.0	13.8	(0)	.4	6.2
MASSACHUSETTS. . . . .	9	5	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
MIDDLE ATLANTIC DIVISION. . . . .	33	20	6.7	67.1	3.9	7.7	35.2	159.6	69.1	224.7	(0)	7.0	95.7
NEW YORK. . . . .	19	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NEW JERSEY. . . . .	7	3	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
PENNSYLVANIA. . . . .	7	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	11.3
NORTH CENTRAL REGION. . . . .	57	32	4.4	40.5	2.6	5.2	21.1	76.7	60.5	135.8	2.0	4.1	63.5
EAST NORTH CENTRAL DIVISION. . . . .	45	30	4.1	37.8	2.4	5.0	20.0	70.1	57.6	126.4	1.7	3.5	55.8
OHIO. . . . .	14	9	1.2	11.6	.6	1.3	5.3	16.8	16.6	32.2	.7	1.2	16.9
INDIANA. . . . .	5	4	1.1	9.0	.6	1.2	4.4	25.4	12.8	37.7	.5	EE	(0)
ILLINOIS. . . . .	16	10	1.3	12.2	.9	1.9	8.0	18.1	23.3	41.7	.4	CC	(0)
MICHIGAN. . . . .	6	4	.4	3.9	.2	.4	1.7	7.8	4.0	11.9	.1	.2	3.7
WEST NORTH CENTRAL DIVISION. . . . .	12	2	.3	2.6	.1	.3	1.1	6.6	2.9	9.4	.3	.6	7.8
MISSOURI. . . . .	4	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3534-- ELEVATORS AND MOVING STAIRWAYS-- CONTINUED													
SDUTH REGION . . . . .	29	18	2.3	21.8	1.1	2.2	8.7	46.6	27.5	71.6	(D)	1.7	19.8
SDUTH ATLANTIC DIVISION. . . . . E1	17	10	.7	8.7	.3	.7	3.1	14.4	8.5	23.0	(D)	.8	8.4
MARYLAND . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
FLDRIDA . . . . . E1	9	5	.3	3.0	.2	.4	1.8	6.3	3.3	9.6	(D)	(NA)	(NA)
EAST SDUTH CENTRAL DIVISION. . . . .	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KENTUCKY . . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SDUTH CENTRAL DIVISION. . . . .	7	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION. . . . . E1	25	12	1.1	9.6	.8	1.4	5.5	19.7	18.5	37.7	.4	.7	10.8
PACIFIC DIVISION . . . . . E1	24	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	10.8
CALIFORNIA . . . . . E1	21	11	1.1	9.4	.8	1.4	5.4	19.4	18.4	37.2	(D)	.7	10.6
3535-- CONVEYORS AND CONVEYING EQUIPMENT													
UNITED STATES. . . . .	494	245	27.3	276.2	16.5	32.7	139.4	541.7	431.4	969.8	13.2	27.4	415.8
NDRTHEAST REGION . . . . .	101	46	6.6	64.0	3.8	7.2	30.6	127.4	85.9	211.4	(D)	7.6	112.5
NEW ENGLAND DIVISION . . . . .	19	6	.4	4.5	.3	.6	2.4	7.6	5.7	14.3	(D)	.3	4.5
MASSACHUSETTS. . . . .	13	4	.3	2.7	.2	.3	1.4	4.9	3.6	9.4	(D)	.3	3.6
MIDDLE ATLANTIC DIVISION . . . . .	82	40	6.2	59.5	3.5	6.6	28.1	119.9	80.2	197.2	(D)	7.3	108.0
NEW YDRK . . . . .	27	13	1.4	13.7	.8	1.5	6.7	28.7	14.5	42.1	(D)	1.6	22.9
NEW JERSEY . . . . .	24	12	1.2	11.5	.7	1.3	5.1	28.6	22.5	50.0	(D)	1.5	24.4
PENNSYLVANIA . . . . .	31	15	3.6	34.4	2.1	3.8	16.3	62.6	43.2	105.0	(D)	4.2	60.7
NDRTH CENTRAL REGION . . . . .	233	122	12.6	136.8	7.7	15.6	71.3	267.6	208.4	473.6	5.9	13.4	208.5
EAST NDRTH CENTRAL DIVISION. . . . .	182	96	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.0	174.9
DHID . . . . . E1	43	32	2.3	22.7	1.5	3.2	12.6	41.1	31.5	72.4	(D)	2.6	35.0
ILLINOIS . . . . .	48	20	2.8	29.8	1.6	3.1	14.4	59.7	44.9	102.7	(D)	3.0	51.0
MICHIGAN . . . . .	66	33	3.9	48.5	2.1	4.5	22.3	97.6	83.0	182.2	(D)	4.5	73.6
WISCONSIN. . . . .	16	9	.6	6.1	.4	.8	3.1	14.0	10.9	24.5	(D)	.8	13.2
WEST NDRTH CENTRAL DIVISION. . . . .	51	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	29.6
MINNESOTA. . . . .	16	8	.7	7.0	.5	.9	4.1	12.9	9.0	21.8	.4	.7	8.7
IDWA . . . . .	9	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
MISSOURI . . . . . E1	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	10.6
SDUTH DAKOTA . . . . . E5	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
KANSAS . . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.8
SDUTH REGION . . . . .	95	53	5.6	48.2	3.6	7.4	24.6	94.5	94.7	189.5	(D)	4.7	68.8
SDUTH ATLANTIC DIVISION. . . . .	43	20	1.3	12.5	.9	1.7	5.9	24.7	30.8	57.6	(D)	1.3	22.7
MARYLAND . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VIRGINIA . . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.1
SDUTH CAROLINA . . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEDRGIA . . . . .	8	5	.2	3.2	.2	.3	1.0	5.4	3.5	9.0	(D)	.2	3.4
FLDRIDA . . . . . E3	17	7	.3	2.3	.2	.4	1.4	3.4	2.5	5.9	(D)	(NA)	(NA)
EAST SDUTH CENTRAL DIVISION. . . . .	25	17	2.6	22.6	1.6	3.2	11.6	46.2	42.8	87.6	(D)	2.2	31.2
KENTUCKY . . . . .	11	7	1.3	14.2	.8	1.6	6.4	25.4	20.9	46.2	(D)	.9	12.8
TENNESSEE. . . . . E1	5	3	.3	1.9	.2	.3	1.2	4.5	2.9	7.1	(D)	88	(D)
ALABAMA. . . . .	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI. . . . .	4	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST SDUTH CENTRAL DIVISION. . . . .	27	16	1.7	13.1	1.1	2.5	7.1	23.6	21.2	44.4	(D)	1.2	14.9
ARKANSAS . . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	18	13	1.4	9.8	.9	2.0	5.6	17.5	17.4	34.5	(D)	1.0	11.8
WEST REGION. . . . .	65	24	2.5	27.2	1.5	2.6	12.9	52.1	42.3	95.3	.8	1.6	26.0
MDUNTAIN DIVISION. . . . .	13	5	.5	4.5	.2	.5	1.9	7.4	5.3	12.3	.4	.3	4.1
COLDRADD . . . . .	8	4	.4	4.2	.2	.4	1.7	6.9	4.8	11.2	(D)	AA	(D)
PACIFIC DIVISION . . . . .	52	19	2.0	22.6	1.2	2.1	11.1	44.7	37.0	83.0	.4	1.4	22.0
DREGDN . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	42	17	1.9	20.9	1.1	1.9	9.8	41.8	35.1	78.3	.3	1.1	19.0
3536-- HOISTS, CRANES, AND MONDRAILS													
UNITED STATES. . . . .	188	92	16.3	160.9	10.7	20.8	96.2	274.7	251.7	527.3	13.8	16.8	241.6
NDRTHEAST REGION . . . . .	35	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	28.4
MIDDLE ATLANTIC DIVISION . . . . .	27	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YDRK . . . . .	10	4	.8	7.3	.5	.9	4.1	12.0	7.5	19.5	(D)	EE	(D)
PENNSYLVANIA . . . . .	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	8.4
NDRTH CENTRAL REGION . . . . .	76	41	10.2	100.1	6.5	12.4	59.2	159.8	146.7	305.1	(D)	12.4	170.0
EAST NDRTH CENTRAL DIVISION. . . . .	59	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.8	160.2
DHID . . . . .	17	14	2.9	27.7	2.0	3.8	16.2	45.6	46.3	91.5	.7	3.4	45.0
INDIANA . . . . .	7	4	.3	2.8	.2	.4	2.0	4.2	3.5	7.7	.3	(NA)	(NA)
ILLINDIS . . . . .	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN . . . . .	16	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN. . . . .	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NDRTH CENTRAL DIVISION. . . . . E1	17	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	9.9
IDWA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
KANSAS . . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3536--HOISTS, CRANES, AND MONORAILS-- CONTINUED													
SOUTH REGION . . . . .	40	19	2.6	22.6	1.8	3.7	13.3	54.4	35.5	87.6	(D)	1.3	19.8
SOUTH ATLANTIC DIVISION . . . . .	15	8	.9	8.4	.6	1.3	4.6	25.0	11.1	35.2	(D)	(NA)	(NA)
VIRGINIA . . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	21	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ARKANSAS . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OKLAHOMA . . . . .	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	13	6	.5	4.8	.4	.8	3.0	11.2	9.4	19.8	(D)	.2	3.9
WEST REGION . . . . .	37	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	23.3
PACIFIC DIVISION . . . . .	36	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WASHINGTON . . . . .	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	28	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3537-- INDUSTRIAL TRUCKS AND TRACTORS													
UNITED STATES . . . . .	380	135	25.8	259.5	16.8	32.9	148.3	524.7	519.5	1 035.4	19.7	27.0	408.6
NORTHEAST REGION . . . . .	67	21	5.1	53.8	2.9	5.9	28.0	123.6	74.5	197.8	(D)	6.6	89.6
NEW ENGLAND DIVISION . . . . .	13	5	.6	5.6	.4	.8	3.2	9.6	8.6	18.1	(D)	1.4	11.8
MASSACHUSETTS . . . . .	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	54	16	4.5	48.2	2.5	5.1	24.8	113.9	65.9	179.7	(D)	5.3	77.8
NEW YORK . . . . .	24	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	21.3
PENNSYLVANIA . . . . .	23	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	55.6
NORTH CENTRAL REGION . . . . .	163	67	14.1	146.7	9.4	18.6	86.6	292.3	316.9	606.8	12.4	14.6	234.4
EAST NORTH CENTRAL DIVISION . . . . .	130	56	13.1	137.8	8.6	17.1	81.0	272.0	301.2	571.7	11.8	13.7	223.6
OHIO . . . . .	46	19	5.3	54.8	3.5	6.8	30.7	88.4	79.6	167.6	4.1	5.3	73.2
INDIANA . . . . .	11	6	.4	3.3	.3	.6	2.4	6.9	6.1	12.4	.5	.2	2.4
ILLINOIS . . . . .	24	12	3.7	39.1	2.4	4.9	22.8	77.1	107.6	186.5	3.5	4.7	82.5
MICHIGAN . . . . .	31	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	57.9
WISCONSIN . . . . .	18	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.7
WEST NORTH CENTRAL DIVISION . . . . .	33	11	1.0	8.8	.7	1.5	5.6	20.2	15.7	35.1	.6	.9	10.8
MINNESOTA . . . . .	9	4	.4	4.1	.3	.7	2.9	10.6	8.0	18.0	.2	.3	3.5
IDWA . . . . .	6	2	.3	2.2	.2	.4	1.4	4.6	3.3	7.9	.1	.8	(D)
MISSOURI . . . . .	10	3	.2	1.3	.2	.3	.8	2.6	1.8	4.3	.2	.2	1.9
SOUTH REGION . . . . .	75	24	3.3	26.7	2.5	4.7	16.0	52.0	59.7	106.7	(D)	2.1	23.4
SOUTH ATLANTIC DIVISION . . . . .	29	10	1.3	10.6	1.0	1.9	6.2	21.9	24.3	46.7	(D)	.3	3.9
VIRGINIA . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	10	3	.4	2.8	.3	.6	1.8	4.0	9.6	14.8	(D)	(NA)	(NA)
FLORIDA . . . . .	E1	7	.3	3.0	.3	.5	1.7	3.8	3.8	7.7	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	18	8	1.3	9.4	.9	1.8	6.0	11.5	21.8	33.1	(D)	1.2	12.1
TENNESSEE . . . . .	E1	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ALABAMA . . . . .	E1	4	.2	1.3	.1	.2	.6	3.1	3.9	6.7	(D)	.3	3.4
MISSISSIPPI . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION . . . . .	E1	28	.8	6.7	.5	1.0	3.8	18.6	13.6	26.9	(D)	.5	7.3
ARKANSAS . . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	E3	20	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.9
WEST REGION . . . . .	75	23	3.2	32.3	2.1	3.8	17.7	56.9	68.4	124.2	1.5	3.8	61.2
MOUNTAIN DIVISION . . . . .	8	3	.2	1.8	.2	.3	1.2	3.3	6.0	9.4	.2	(NA)	(NA)
PACIFIC DIVISION . . . . .	67	20	3.0	30.5	1.9	3.5	16.5	53.6	62.4	114.8	1.3	FF	(D)
OREGON . . . . .	20	6	1.8	18.7	1.0	1.8	10.0	32.5	37.0	68.7	.9	EE	(D)
CALIFORNIA . . . . .	44	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	19.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

## TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

[illegible]

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

## TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3531-- CONSTRUCTION MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	748	133.8	1 460.2	98.2	197.4	997.0	3 130.7	3 055.2	6 091.0	159.5	1 695.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	206	.3	3.2	.3	.5	2.2	8.0	10.0	17.9	.8	4.6
5 TO 9 EMPLOYEES . . . . . E6	63	.4	3.9	.3	.6	2.5	8.2	9.4	17.6	.4	4.2
10 TO 19 EMPLOYEES . . . . . E1	92	1.3	11.4	.9	1.7	6.8	26.3	29.9	55.5	1.2	12.2
20 TO 49 EMPLOYEES . . . . . E1	109	3.5	31.8	2.5	5.1	19.7	67.5	62.1	127.8	2.5	28.8
50 TO 99 EMPLOYEES . . . . .	93	6.7	59.7	4.6	9.2	36.0	124.3	169.6	287.7	5.1	62.0
100 TO 249 EMPLOYEES . . . . .	78	12.0	113.8	8.3	16.5	68.6	217.4	251.4	462.8	11.4	145.3
250 TO 499 EMPLOYEES . . . . .	48	18.1	166.2	12.8	25.9	107.3	343.7	337.5	669.2	14.7	221.6
500 TO 999 EMPLOYEES . . . . .	34	23.7	255.3	17.4	34.9	175.1	564.3	671.7	1 203.7	20.7	367.0
1,000 TO 2,499 EMPLOYEES . . . . .	18	27.9	318.4	19.9	41.0	212.1	540.5	597.5	1 121.4	32.7	356.7
2,500 EMPLOYEES OR MORE. . . . .	7	39.8	496.5	31.1	62.1	366.8	1 230.7	916.1	2 127.5	70.1	493.3
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	197	.5	4.4	.4	.7	2.9	9.4	10.6	20.0	.6	5.5
3532-- MINING MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	240	21.4	197.5	14.3	27.4	118.9	393.2	389.0	771.4	13.4	237.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	54	.1	.9	.1	.1	.5	2.2	2.4	4.6	.1	1.3
5 TO 9 EMPLOYEES . . . . . E5	28	.2	1.7	.1	.2	1.0	3.5	3.8	7.3	.3	1.7
10 TO 19 EMPLOYEES . . . . . E2	34	.5	4.8	.4	.7	2.6	10.3	9.6	20.1	.4	3.3
20 TO 49 EMPLOYEES . . . . .	47	1.4	12.3	1.0	1.9	7.2	23.6	23.6	47.0	.8	9.5
50 TO 99 EMPLOYEES . . . . .	35	2.5	22.2	1.8	3.5	13.7	48.9	50.6	96.2	1.7	25.7
100 TO 249 EMPLOYEES . . . . . E1	22	3.5	31.4	2.3	4.7	18.6	79.6	68.3	143.5	2.6	35.7
250 TO 499 EMPLOYEES . . . . .	10	3.6	34.0	2.2	4.3	20.7	55.8	70.7	125.2	1.5	45.3
500 TO 999 EMPLOYEES . . . . .	7	4.8	43.7	3.3	6.0	28.3	89.0	75.4	161.2	3.8	55.5
1,000 TO 2,499 EMPLOYEES . . . . .	3	5.1	48.6	3.1	5.9	27.2	80.4	84.6	166.1	2.2	62.8
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	49	.1	1.1	.1	.2	.7	2.5	2.9	5.4	.2	1.1

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3533-- OILFIELD MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	314	35.8	356.6	24.3	49.8	216.8	784.9	460.9	1 207.1	48.0	381.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	78	.1	1.2	.1	.2	.8	3.2	2.0	6.2	.3	1.7
5 TO 9 EMPLOYEES . . . . . E7	36	.3	2.1	.2	.4	1.4	6.0	4.1	10.0	.3	2.7
10 TO 19 EMPLOYEES . . . . . E1	42	.6	4.8	.4	.8	3.0	12.6	7.4	19.6	.7	3.6
20 TO 49 EMPLOYEES . . . . .	55	1.7	15.1	1.2	2.5	9.4	32.3	21.5	53.3	1.6	11.2
50 TO 99 EMPLOYEES . . . . .	32	2.3	21.5	1.4	3.0	11.7	46.0	31.7	76.9	4.4	19.4
100 TO 249 EMPLOYEES . . . . .	33	4.9	49.0	3.3	7.1	28.7	122.5	88.0	204.9	2.9	51.8
250 TO 499 EMPLOYEES . . . . .	22	8.2	79.5	5.3	10.6	44.5	205.0	117.2	307.4	14.5	80.0
500 TO 999 EMPLOYEES . . . . .	11	7.4	75.2	5.0	10.0	44.9	137.7	81.0	219.1	8.8	85.9
1,000 TO 2,499 EMPLOYEES . . . . .	3	10.3	108.2	7.5	15.2	72.5	219.6	108.1	309.8	14.3	125.1
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	73	.2	1.9	.2	.3	1.2	6.5	4.0	10.6	.4	3.2
3534-- ELEVATORS AND MOVING STAIRWAYS											
ESTABLISHMENTS, TOTAL. . . . .	154	15.0	144.5	8.6	17.2	73.7	310.2	181.7	483.6	7.8	133.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	20	(2)	.3	(2)	(2)	.1	.7	.3	1.0	(2)	.2
5 TO 9 EMPLOYEES . . . . . E4	26	.2	1.8	.1	.3	1.1	3.7	2.3	6.0	.1	1.0
10 TO 19 EMPLOYEES . . . . . E3	20	.3	2.8	.2	.5	1.8	6.4	3.7	9.9	.3	1.5
20 TO 49 EMPLOYEES . . . . .	30	1.0	8.7	.6	1.1	5.1	15.4	13.3	28.7	.3	4.3
50 TO 99 EMPLOYEES . . . . . E1	25	1.7	17.2	1.1	2.2	9.7	31.3	28.0	57.9	.4	14.3
100 TO 249 EMPLOYEES . . . . .	20	3.0	30.2	1.8	3.8	15.3	59.7	38.9	95.5	.9	20.5
250 TO 499 EMPLOYEES . . . . .	5	1.9	17.2	1.2	2.5	9.3	68.4	24.9	90.8	1.4	15.1
500 TO 999 EMPLOYEES . . . . .	5	6.9	66.3	3.7	6.9	31.3	124.6	70.2	193.9	4.4	76.2
1,000 TO 2,499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	23	.1	.6	(2)	.1	.3	1.6	.7	2.3	(2)	.4
3535-- CONVEYORS AND CONVEYING EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	494	27.3	276.2	16.5	32.7	139.4	541.7	431.4	969.8	13.2	152.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	118	.2	1.9	.2	.3	1.0	4.0	3.8	8.6	.2	1.3
5 TO 9 EMPLOYEES . . . . . E4	58	.4	3.8	.2	.5	2.1	7.7	6.3	14.3	.5	1.6
10 TO 19 EMPLOYEES . . . . .	73	1.0	9.6	.7	1.4	5.4	19.2	16.4	35.1	1.1	4.5
20 TO 49 EMPLOYEES . . . . . E1	115	3.6	33.9	2.5	4.8	19.9	63.4	53.7	116.2	1.2	14.8
50 TO 99 EMPLOYEES . . . . .	68	4.8	52.4	3.1	6.0	27.2	95.6	78.4	171.5	3.2	24.9
100 TO 249 EMPLOYEES . . . . .	38	6.2	63.6	3.8	7.9	33.0	130.1	114.8	245.4	3.0	36.8
250 TO 499 EMPLOYEES . . . . .	17	6.5	62.6	3.9	7.6	32.2	120.8	92.5	209.2	2.1	37.3
500 TO 999 EMPLOYEES . . . . .	7	4.5	48.4	2.1	4.1	18.6	100.0	65.5	169.5	1.9	31.4
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	121	.4	3.3	.3	.5	1.8	7.0	5.8	12.8	.2	2.0
3536-- HOISTS, CRANES, AND MONORAILS											
ESTABLISHMENTS, TOTAL. . . . .	188	16.3	160.9	10.7	20.4	96.2	274.7	251.7	527.3	13.8	127.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	32	.1	.5	(2)	.1	.3	1.2	1.0	2.2	.1	.6
5 TO 9 EMPLOYEES . . . . . E5	26	.2	1.8	.1	.2	1.0	3.2	2.2	5.4	.1	1.2
10 TO 19 EMPLOYEES . . . . . E1	38	.6	5.4	.4	.7	3.1	13.1	10.5	23.4	.2	3.7
20 TO 49 EMPLOYEES . . . . .	38	1.2	11.8	.8	1.7	7.5	23.8	23.6	47.3	.5	7.3
50 TO 99 EMPLOYEES . . . . .	23	1.6	14.8	1.1	2.2	9.0	31.6	28.0	58.6	1.2	12.5
100 TO 249 EMPLOYEES . . . . .	17	2.5	24.4	1.9	3.8	15.4	49.2	41.9	87.9	8.5	19.9
250 TO 499 EMPLOYEES . . . . .	6	2.4	23.5	1.4	2.9	11.7	33.6	34.8	73.6	.8	21.6
500 TO 999 EMPLOYEES . . . . .	6	7.8	78.7	4.9	9.2	48.0	118.6	109.6	229.0	2.3	60.5
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	38	.2	1.5	.1	.2	.9	3.3	2.8	6.1	.1	1.6
3537-- INDUSTRIAL TRUCKS AND TRACTORS											
ESTABLISHMENTS, TOTAL. . . . .	380	25.8	259.5	16.8	32.9	148.3	524.7	519.5	1 035.4	19.7	262.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	111	.2	1.5	.1	.2	.9	3.5	3.7	7.3	.3	1.9
5 TO 9 EMPLOYEES . . . . . E6	60	.4	3.3	.3	.5	1.9	7.1	7.5	14.6	.2	2.9
10 TO 19 EMPLOYEES . . . . . E1	74	1.1	8.9	.8	1.5	5.7	16.0	14.3	30.2	.6	4.4
20 TO 49 EMPLOYEES . . . . .	60	1.9	15.5	1.4	2.6	9.6	31.3	26.5	57.2	1.0	8.6
50 TO 99 EMPLOYEES . . . . . E1	29	2.0	17.5	1.5	2.9	10.6	32.4	34.3	65.9	1.7	11.4
100 TO 249 EMPLOYEES . . . . .	27	4.1	37.2	3.0	5.6	22.6	68.2	71.9	140.3	4.3	36.4
250 TO 499 EMPLOYEES . . . . .	9	3.1	29.4	2.0	3.6	17.1	53.6	52.2	98.3	1.0	35.4
500 TO 999 EMPLOYEES . . . . .	5	3.3	34.1	2.2	4.5	18.9	67.4	75.6	140.8	2.7	40.1
1,000 TO 2,499 EMPLOYEES . . . . .	4	9.8	112.0	5.6	11.4	61.2	245.3	233.5	480.9	7.8	121.1
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	124	.4	3.1	.3	.5	1.8	6.6	7.0	13.6	.3	3.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.



TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3531	CONSTRUCTION MACHINERY										
	ENTIRE INDUSTRY . . . . .	748	133.8	1 460.2	98.2	197.4	997.0	3 130.7	3 055.2	6 091.0	159.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	678	115.9	1 282.5	84.7	171.0	872.9	2 795.1	2 753.0	5 465.3	146.5
35311	CONTRACTORS OFF-HIGHWAY WHEEL TRACTORS, EXC. PTS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	2.4	24.3	1.8	3.8	17.8	64.1	86.2	143.7	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35312	TRACKLAYING-TYPE TRACTORS, EXC. PARTS, ATTACHMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35313	PTS, ATTACHMENTS--TRACTORS, TRACTOR SHOVEL LOADERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	38	12.2	138.7	9.5	18.6	101.7	264.4	191.6	449.1	23.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	26	4.9	55.9	3.8	7.6	39.7	117.2	69.2	187.4	(D)
35314	POWER CRANES, DRAGLINES, SHOVELS, AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	65	22.0	223.8	16.3	34.1	159.3	451.0	463.3	888.2	20.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	53	18.4	186.0	13.5	28.2	131.4	375.5	402.2	757.5	18.3
35316	MIXERS, PAVERS, RELATED EQUIPMENT, EXC. PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	68	10.1	100.6	6.8	13.8	58.5	195.9	172.9	359.6	5.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	35	3.8	35.7	2.7	5.5	21.7	70.7	69.2	137.8	3.0
35317	TRACTOR SHOVEL LOADERS, EXC. PARTS, ATTACHMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	13	17.6	221.8	12.8	26.5	152.4	439.5	591.5	1 017.9	14.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	2.5	27.2	1.6	2.9	15.8	59.3	108.6	166.5	2.5
35318	SCRAPERS, GRADERS, OFF-HWY. TRUCKS, WAGONS, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	66	22.8	252.5	16.1	31.8	164.6	492.5	626.1	1 104.4	22.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	46	12.4	135.3	8.8	17.8	87.7	289.2	290.4	570.9	11.4
35319	OTHER CONSTRUCTION MACHINERY, EQUIPMENT AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	169	20.4	193.6	14.7	30.2	123.6	390.3	400.7	780.8	18.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	114	9.8	92.3	6.8	13.8	55.7	195.0	194.9	384.5	8.3
3532	MINING MACHINERY										
	ENTIRE INDUSTRY . . . . .	240	21.4	197.5	14.3	27.4	118.9	393.2	389.0	771.4	13.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	216	15.9	144.2	10.8	20.6	87.8	306.1	312.5	611.5	11.0
35321	UNDERGROUND MINING, MINERAL BENEFICIATION EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	34	6.7	60.0	4.3	8.2	34.4	110.7	122.5	236.8	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	23	2.1	17.6	1.4	2.7	10.7	27.5	35.1	63.5	.9
35322	CRUSHING, PULVERIZING AND SCREENING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	23	3.0	29.5	2.1	3.8	18.5	48.5	57.3	105.1	2.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	15	1.1	11.3	.7	1.4	5.9	21.1	26.1	47.1	1.3
35323	ALL OTHER MINING MACHINERY AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	16	1.1	10.0	.7	1.4	5.5	34.1	38.3	68.9	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	9	.6	5.8	.3	.7	3.0	24.3	27.4	48.8	.2
35324	PARTS, ATTACHMENTS FOR MINING MACH. AND EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	71	9.2	87.2	6.3	12.4	54.0	177.5	153.3	321.2	5.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	51	4.9	44.3	3.5	7.0	29.6	94.5	77.3	169.7	4.2
3533	DILFIELD MACHINERY										
	ENTIRE INDUSTRY . . . . .	314	35.8	356.6	24.3	49.8	216.8	784.9	460.9	1 207.1	48.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	289	25.5	252.5	17.6	35.3	153.7	559.6	314.7	846.4	33.6
35331	ROTARY DIL, GAS FIELD DRILLING MACH., EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	50	14.7	154.1	10.4	20.7	98.6	336.2	169.4	488.0	19.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	39	9.5	95.9	6.8	13.0	61.3	213.2	91.5	298.2	8.2
35332	OTHER OIL, GAS FIELD DRILLING MACH., EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	1.9	20.2	1.1	2.4	9.7	45.8	29.5	73.7	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35333	DIL, GAS FIELD PROD. MACH., EQUIP., EXC. PUMPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	76	12.5	122.5	8.5	17.9	73.7	283.8	170.1	437.3	15.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	59	8.3	82.6	5.5	11.8	48.4	199.2	115.8	299.3	12.8
35334	OTHER DIL-GASFIELD, INCL. WATER WELL, EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	26	4.3	39.2	2.8	5.6	22.5	76.5	65.6	142.4	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	15	1.3	12.3	1.0	2.0	7.7	25.6	16.8	42.3	.9
3534	ELEVATORS AND MOVING STAIRWAYS										
	ENTIRE INDUSTRY . . . . .	154	15.0	144.5	8.6	17.2	73.7	310.2	181.7	483.6	7.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	146	13.7	132.8	7.8	15.5	67.0	293.0	169.4	452.0	7.6
3535	CONVEYORS AND CONVEYING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	494	27.3	276.2	16.5	32.7	139.4	541.7	431.4	969.8	13.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	432	20.7	211.9	12.3	24.4	104.9	417.9	339.1	752.6	11.1
35351	CONVEYORS, CONVEYING EQUIPMENT, EXC. HOISTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	269	22.7	235.2	13.3	26.6	114.2	469.3	371.6	839.9	10.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	202	15.8	167.0	9.2	18.4	80.3	334.4	263.7	596.1	8.6
35352	CONVEYOR PARTS, ATTACHMENTS, AND ACCESSORIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	29	2.5	23.3	1.8	3.4	15.2	39.9	33.8	71.5	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	16	1.3	12.0	.9	1.7	6.9	23.1	20.7	43.3	.8

See footnotes at end of table.

**TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:**  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Peyroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3536	HOISTS, CRANES, AND MONORAILS										
	ENTIRE INDUSTRY . . . . .	188	16.3	160.9	10.7	20.8	96.2	274.7	251.7	527.3	13.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	165	9.6	91.1	6.4	12.3	55.2	172.3	162.7	337.6	11.3
35361	HOISTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	56	5.8	52.7	3.8	7.3	30.9	115.7	77.8	188.7	2.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	37	2.2	20.8	1.5	3.0	12.5	49.0	29.4	77.1	1.4
35362	OVERHEAD TRAVELING CRANES AND MONORAIL SYSTEMS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	66	9.8	102.0	6.4	12.4	61.2	143.2	162.7	313.0	10.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	50	4.8	49.1	3.2	6.3	29.7	72.4	97.6	176.9	8.4
3537	INDUSTRIAL TRUCKS AND TRACTORS										
	ENTIRE INDUSTRY . . . . .	380	25.8	259.5	16.8	32.9	148.3	524.7	519.5	1 035.4	19.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	352	22.8	231.0	14.7	28.7	132.6	471.6	464.6	925.3	18.3
35371	INDUSTRIAL TRUCKS AND TRACTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	108	20.7	213.9	13.3	26.5	121.8	442.9	440.2	875.0	13.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	76	15.7	168.4	9.9	20.0	96.6	348.9	359.0	701.1	11.9
35372	PARTS, ATTACHMENTS FOR INOVS, TRUCKS, TRACTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	33	2.1	20.3	1.4	2.4	11.6	30.9	36.0	67.0	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	29	2.0	19.0	1.3	2.2	10.5	29.3	33.9	63.4	2.1

(D) Withheld to avoid disclosing figures for individual companies.

**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
										Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3531	Construction machinery.....1972..	6,091.0	5,245.8	575.4	269.8	90	5,653.6	5,245.8	407.8	93
	.....1967..	4,138.0	3,459.0	486.3	192.7	88	3,766.6	3,459.0	307.6	92
3532	Mining machinery.....1972..	771.4	592.1	91.6	87.7	87	729.8	592.1	137.7	81
	.....1967..	622.2	427.7	120.8	73.7	78	521.5	427.7	93.8	82
3533	Oilfield machinery.....1972..	1,207.1	904.8	197.6	104.7	82	980.0	904.8	75.2	92
	.....1967..	799.8	605.0	104.3	90.5	85	660.7	605.0	55.7	92
3534	Elevators and moving stairways.....1972..	483.6	395.0	13.0	75.6	97	412.2	395.0	17.2	96
	.....1967..	319.7	280.0	16.6	123.1	94	295.9	280.0	15.9	95
3535	Conveyors and conveying equipment.....1972..	969.8	730.4	83.0	156.4	90	825.6	730.4	95.2	88
	.....1967..	763.0	544.6	98.1	120.3	85	655.4	544.6	110.8	83
3536	Hoists, cranes, and monorails.....1972..	527.3	375.9	103.8	47.6	78	446.0	375.9	70.1	84
	.....1967..	444.4	320.0	90.0	34.4	78	385.3	320.0	65.3	83
3537	Industrial trucks and tractors.....1972..	1,035.4	916.1	42.2	77.1	96	1,004.8	916.1	88.7	91
	.....1967..	778.0	672.4	49.8	55.8	93	780.7	672.4	108.3	86

<sup>1</sup>In industry 3534, the figures for 1967 and later years are not comparable with those in earlier years because some companies included construction receipts with value of shipments in 1966 and prior years. Value added by manufacture and value of shipments for 1967 would have been \$50 million to \$75 million higher had they been on a comparable basis with earlier years.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Construction machinery (SIC 3531)	Mining machinery (SIC 3532)	Oilfield machinery (SIC 3533)	Elevators and moving stairways (SIC 3534)	Conveyors and conveying equipment (SIC 3535)	Hoists, cranes, and monorails (SIC 3536)	Industrial trucks and tractors (SIC 3537)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	6,091.0	771.4	1,207.1	483.6	969.8	527.3	1,035.4	(X)
3531	Construction machinery.....	5,653.6	5,245.8	33.3	13.6	-	1.0	40.7	13.3	305.9
35311	Contractors' off-highway wheel tractors except parts and attachments.....	251.5	245.6	-	-	-	-	-	(under 2)	(2-5)
35312	Tracklaying-type tractors, except parts and attachments.....	564.0	564.0	-	-	-	-	-	-	-
35313	Parts and attachments for tracklaying-type tractors, contractors' off-highway wheel tractors, and tractor shovel loaders.....	865.7	746.0	(under 2)	-	-	-	-	-	(over 2)
35314	Power cranes, draglines, shovels, and parts.....	914.2	842.1	-	(under 2)	-	-	(over 2)	-	39.2
35316	Mixers, pavers, and related equipment, excluding parts.....	252.0	242.2	(under 2)	(over 2)	-	(under 2)	(under 2)	-	6.4
35317	Tractors and shovel loaders, excluding parts and attachments.....	810.7	799.7	(under 2)	-	-	-	-	-	(over 2)
35318	Scrapers, graders, rollers, and off-highway trucks, wagons, etc.....	964.8	910.2	(under 2)	(under 2)	-	-	(2-5)	(under 2)	47.7
35319	Other construction machinery and equipment, including parts.....	913.0	781.6	31.1	8.1	-	(under 2)	(2-5)	(over 2)	76.2
35310	Construction machinery, n.s.k.....	117.7	114.4	1.3	-	-	-	(under 2)	(under 2)	1.4
3532	Mining machinery.....	729.8	46.1	592.1	23.1	-	(under 2)	(under 2)	-	66.9
35321	Underground mining and mineral beneficiation machinery and equipment.....	168.5	4.7	151.9	-	-	.9	-	-	11.0
35322	Crushing, pulverizing, and screening machinery....	101.3	(over 2)	78.5	-	-	(under 2)	(under 2)	-	14.4
35323	All other mining machinery and equipment.....	93.5	-	65.9	(2-5)	-	-	-	-	(over 2)
35324	Parts and attachments for mining machinery and equipment.....	331.1	(over 2)	261.2	(over 2)	-	(under 2)	-	-	(29.2)
35320	Mining machinery, n.s.k.....	35.4	-	34.6	-	-	(under 2)	-	-	(under 2)
3533	Oilfield machinery.....	980.0	(over 2)	(under 2)	904.8	-	-	(under 2)	-	69.3
35331	Rotary oilfield and gasfield drilling machinery and equipment.....	348.2	(under 2)	(under 2)	335.8	-	-	(under 2)	-	10.0
35332	Other oilfield and gasfield drilling machinery and equipment.....	87.0	(under 2)	(under 2)	79.7	-	-	-	-	(over 2)
35333	Oilfield and gasfield production machinery and equipment, except pumps.....	376.5	(under 2)	-	344.8	-	-	(under 2)	-	31.3
35334	Other oilfield and gasfield machinery and tools, including water-well and equipment.....	113.6	(over 2)	-	89.8	-	-	-	-	(over 2)
35330	Oilfield machinery, n.s.k.....	54.7	-	-	54.7	-	-	-	-	-
35340	Elevators and moving stairways.....	412.2	-	-	-	395.0	2.4	-	.5	14.3
3535	Conveyors and conveying equipment.....	825.6	13.1	4.4	(under 2)	-	730.4	2.7	.7	(over 2)
35351	Conveyors and conveying equipment, except hoists and farm elevators.....	658.8	(over 2)	(over 2)	(under 2)	-	583.6	(under 2)	(under 2)	59.6
35352	Conveyor parts, attachments, and accessories.....	107.1	(over 2)	-	-	-	89.5	(under 2)	(under 2)	12.0
35350	Conveyors and conveying equipment, n.s.k.....	59.7	-	(under 2)	-	-	57.3	-	-	(over 2)
3536	Hoists, cranes, and monorails.....	446.0	12.2	(2-5)	-	(under 2)	5.8	375.9	(over 2)	42.8
35361	Hoists.....	167.4	5.5	(2-5)	-	(under 2)	.2	128.3	(under 2)	27.2
35362	Overhead traveling cranes and monorail systems....	253.5	6.8	-	-	(under 2)	5.6	223.4	(over 2)	14.6
35360	Hoists, cranes, and monorails, n.s.k.....	25.1	-	-	-	-	-	24.2	-	.9
3537	Industrial trucks and tractors.....	1,004.8	26.2	-	(under 2)	(under 2)	5.7	7.5	916.1	47.9
35371	Industrial trucks and tractors.....	729.5	23.0	-	(under 2)	-	(over 2)	7.4	665.8	27.6
35372	Parts and attachments for industrial trucks and tractors.....	171.4	(under 2)	-	-	(under 2)	(under 2)	-	163.4	7.3
35370	Industrial trucks and tractors.....	103.9	(2-5)	-	-	(under 2)	-	(under 2)	86.9	13.1
2542	Other product shipments by 4-digit product group: Metal partitions and fixtures.....	(X)	(Z)	-	-	(under 2)	4.7	(under 2)	.3	(X)
2875	Fertilizers, mixing only.....	(X)	-	-	-	-	-	-	-	(X)
3292	Asbestos products.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3312	Blast furnaces and steel mills.....	(X)	(under 2)	-	(2-5)	-	-	-	-	(X)
3321	Gray iron foundries.....	(X)	4.2	.6	-	(under 2)	-	-	-	(X)
3322	Malleable iron foundries.....	(X)	-	(under 2)	-	-	(over 2)	-	-	(X)
3325	Steel foundries, n.e.c.....	(X)	7.7	-	(under 2)	-	-	-	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	(Z)	.2	-	-	-	(over 2)	-	(X)
3425	Hand saws and saw blades.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3429	Hardware, n.e.c.....	(X)	-	(under 2)	-	-	(2-5)	-	2.8	(X)
3441	Fabricated structural metal.....	(X)	(2.5)	(under 2)	-	-	(under 2)	(2-5)	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	(under 2)	(under 2)	(2-5)	-	1.2	(under 2)	(under 2)	(X)
3446	Architectural metalwork.....	(X)	(under 2)	-	-	-	4.0	(under 2)	(under 2)	(X)
3462	Iron and steel forgings.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3463	Nonferrous forgings.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(over 2)	(under 2)	-	-	(under 2)	-	-	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Construction machinery (SIC 3531)	Mining machinery (SIC 3532)	Oilfield machinery (SIC 3533)	Elevators and moving stairways (SIC 3534)	Conveyors and conveying equipment (SIC 3535)	Hoists, cranes, and monorails (SIC 3536)	Industrial trucks and tractors (SIC 3537)	Other industries
Shipments and miscellaneous receipts--Continued										
Other product shipments by 4-digit product group:										
3483	Ammunition, except for small arms, n.e.c.....	(X)	(over 2)	-	(under 2)	-	-	(over 2)	-	(X)
3489	Ordnance and accessories, n.e.c.....	(X)	(under 2)	-	(over 2)	-	-	(Z)	-	(X)
3494	Valves and pipe fittings.....	(X)	-	(under 2)	43.7	(under 2)	(under 2)	-	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	(under 2)	-	-	-	(2-5)	-	-	(X)
3498	Fabricated pipe and fittings.....	(X)	-	-	(2-5)	-	(under 2)	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	(100-200)	(over 2)	-	-	-	-	-	(X)
3523	Farm machinery and equipment.....	(X)	(50-100)	-	-	-	(2-5)	(under 2)	(2-5)	(X)
3549	Metalworking machinery, n.e.c.....	(X)	-	-	-	(over 2)	(under 2)	(under 2)	-	(X)
3551	Food products machinery.....	(X)	(2-5)	(under 2)	-	-	.3	-	-	(X)
3554	Paper industries machinery.....	(X)	.3	(over 2)	-	-	(under 2)	(under 2)	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	5.4	3.3	(under 2)	-	6.8	(over 2)	(under 2)	(X)
3561	Pumps and pumping equipment.....	(X)	7.6	(5-10)	23.5	-	(under 2)	-	(Z)	(X)
3563	Air and gas compressors.....	(X)	(5-10)	(under 2)	(under 2)	-	-	-	-	(X)
3564	Blowers and fans.....	(X)	(under 2)	-	-	-	(2-5)	-	-	(X)
3566	Speed changers, drives, and gears.....	(X)	(under 2)	(under 2)	(10-20)	-	(under 2)	(under 2)	-	(X)
3567	Industrial furnaces and ovens.....	(X)	-	-	-	-	-	(over 2)	(under 2)	(X)
3569	General industrial machinery, n.e.c.....	(X)	.3	(under 2)	(under 2)	-	(under 2)	8.0	(under 2)	(X)
3576	Scales and balances, except laboratory.....	(X)	(Z)	-	(over 2)	-	(under 2)	-	-	(X)
3585	Refrigeration and heating equipment.....	(X)	(5-10)	(under 2)	-	-	-	-	-	(X)
3586	Measuring and dispensing pumps.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3589	Service industry machinery, n.e.c.....	(X)	(under 2)	(under 2)	-	-	(over 2)	(over 2)	(under 2)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	(under 2)	(under 2)	(2-5)	(under 2)	2.2	(under 2)	.7	(X)
3621	Motors and generators.....	(X)	(10-20)	(5-10)	-	-	-	(under 2)	(Z)	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	(under 2)	(under 2)	-	-	(under 2)	-	(Z)	(X)
3674	Semiconductors and related devices.....	(X)	-	-	-	-	(over 2)	-	-	(X)
3679	Electronic components, n.e.c.....	(X)	-	-	-	(under 2)	-	-	(over 2)	(X)
3711	Motor vehicles and car bodies.....	(X)	(10-20)	-	-	-	-	-	-	(X)
3713	Truck and bus bodies.....	(X)	10.4	(under 2)	-	-	(under 2)	(5-10)	(under 2)	(X)
3714	Motor vehicle parts and accessories.....	(X)	61.9	(under 2)	-	-	-	(over 2)	(2-5)	(X)
3715	Truck trailers.....	(X)	(2-5)	-	-	-	(over 2)	(over 2)	(under 2)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	(under 2)	-	(over 2)	-	(under 2)	-	-	(X)
3731	Ship building and repairing.....	(X)	(2-5)	-	-	-	-	(under 2)	-	(X)
3743	Railroad equipment.....	(X)	(2-5)	4.7	-	-	-	(under 2)	-	(X)
3799	Transportation equipment, n.e.c.....	(X)	.5	-	-	-	-	-	(over 2)	(X)
Miscellaneous receipts.....										
9300000	Contract work.....	(X)	269.8	87.7	104.7	75.6	156.4	47.6	77.1	(X)
9998013	Sales of scrap and refuse.....	(X)	12.5	3.8	30.2	4.9	7.0	2.6	3.6	(X)
9998061	Receipts for repair work.....	(X)	8.7	(under 2)	(Z)	.5	1.6	.3	1.1	(X)
9998061	Receipts for research and developmental work.....	(X)	6.9	5.9	8.3	(over 2)	(under 2)	24.2	6.4	(X)
9998041	Receipts for installation.....	(X)	(under 2)	(under 2)	(Z)	(Z)	(under 2)	(Z)	(under 2)	(X)
9998031	Receipts for installation.....	(X)	(over 2)	(Z)	(Z)	(20-50)	36.2	.6	(over 2)	(X)
9998900	Resales.....	(X)	224.7	65.0	42.5	9.4	94.1	10.9	51.1	(X)
9998098	Other miscellaneous receipts.....	(X)	12.7	11.7	23.7	1.6	15.0	9.0	8.7	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries					
Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued							
3531	3011- Tires and inner tubes.....	(over 2)	3532	3469- Metal stampings, n.e.c.....	(over 2)					
	3433- Heating equipment, except electric.....	(over 2)		3483- Ammunition, except for small arms, n.e.c.....	(2-5)					
	3441- Fabricated structural metal.....	8.1		3496- Miscellaneous fabricated wire products.....	(over 2)					
	3443- Fabricated platework (boiler shops).....	5.7		3545- Machine tool accessories.....	9.7					
	3493- Steel springs, except wire.....	(over 2)		3546- Power-driven handtools.....	(2-5)					
	3519- Internal combustion engines, n.e.c.....	(over 2)		3559- Special industry machinery, n.e.c.....	7.8					
	3523- Farm machinery and equipment.....	126.9		3561- Pumps and pumping equipment.....	(2-5)					
	3524- Lawn and garden equipment.....	2.4		3563- Air and gas compressors.....	7.1					
	3553- Woodworking machinery.....	(5-10)		3564- Blowers and fans.....	(over 2)					
	3559- Special industry machinery, n.e.c.....	3.3		3569- General industrial machinery, n.e.c.....	2.3					
	3569- General industrial machinery, n.e.c.....	(5-10)		3731- Ship building and repairing.....	(2-5)					
	3599- Machinery, except electrical, n.e.c.....	3.7		3743- Railroad equipment.....	(2-5)					
				3842- Surgical appliances and supplies.....	(over 2)					
	3711- Motor vehicles and car bodies.....	(20-50)	3533	3312- Blast furnaces and steel mills.....	(over 2)					
	3713- Truck and bus bodies.....	5.5		3483- Ammunition, except for small arms, n.e.c.....	(over 2)					
	3714- Motor vehicle parts and accessories.....	12.2		3489- Ordnance and accessories, n.e.c.....	(over 2)					
	3724- Aircraft engines and engine parts.....	(over 2)		3494- Valves and pipe fittings.....	11.5					
	3728- Aircraft equipment, n.e.c.....	(over 2)		3561- Pumps and pumping equipment.....	7.7					
	3731- Ship building and repairing.....	9.7		3563- Air and gas compressors.....	(over 2)					
	3743- Railroad equipment.....	(20-50)		3731- Ship building and repairing.....	(5-10)					
	3799- Transportation equipment, n.e.c.....	3.8		3743- Railroad equipment.....	(10-20)					

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products--Continued			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3534	3586- Measuring and dispensing pumps.....	(5-10)	3536	3443- Fabricated platework (boiler shops).....	3.7 (5-10)
3535	2899- Chemical preparations, n.e.c.....	(over 2)		3546- Power-driven handtools.....	(over 2)
	3429- Hardware, n.e.c.....	(over 2)		3563- Air and gas compressors.....	(over 2)
	3441- Fabricated structural metal.....	(2-5)		3574- Calculating and accounting machines.....	(over 2)
	3443- Fabricated platework (boiler shops).....	2.9		3621- Motors and generators.....	(over 2)
	3444- Sheet metalwork.....	2.9		3713- Truck and bus bodies.....	(5-10)
	3551- Food products machinery.....	3.9	3537	2522- Metal office furniture.....	(2-5)
	3559- Special industry machinery, n.e.c.....	6.3		3429- Hardware, n.e.c.....	5.7
	3564- Blowers and fans.....	4.9		3499- Fabricated metal products, n.e.c.....	2.8
	3568- Power transmission equipment, n.e.c.....	8.1		3523- Farm machinery and equipment.....	(2-5)
	3599- Machinery, except electrical, n.e.c.....	3.1		3713- Truck and bus bodies.....	(2-5)
	3728- Aircraft equipment, n.e.c.....	(10-20)		3714- Motor vehicle parts and accessories.....	5.1
	3731- Ship building and repairing.....	(over 2)		3743- Railroad equipment.....	(5-10)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or under 50 employees).

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3531- --	CONSTRUCTION MACHINERY, TOTAL.....		(X)	5,653.6	(X)	3,766.6
	Contractors' Off-Highway Wheel Tractors, Except Parts and Attachments:					
35311 00	As reported in the census of manufactures.....		(X)	251.5	(X)	132.2
	As reported in Current Industrial Reports series MA-35D <sup>1</sup> .....		(X)	262.3	(X)	118.2
35312 --	Tracklaying-Type Tractors, Except Parts and Attachments:					
	As reported in the census of manufactures:					
35312 07	Under 20 net engine horsepower rating.....		(X)	564.0	(X)	389.9
35312 10	20 net engine horsepower rating and over.....		(X)	516.0	(X)	377.8
	As reported in Current Industrial Reports series MA-35T <sup>2</sup> .....					
35313 --	Parts and Attachments for Tracklaying-Type Tractors, Contractors' Off-Highway Wheel Tractors, and Tractor Shovel Loaders.....		(X)	865.7	(X)	604.2
	Parts (for replacement and repair) and attachments for tracklaying tractors and tracklaying-type tractor shovel loaders:					
35313 10	As reported in the census of manufactures.....		(X)	519.3	(X)	340.4
35313 70	As reported in Current Industrial Reports series MA-35T <sup>3</sup> .....		(X)	486.9	(X)	352.5
35313 65	Parts (for replacement and repair) and attachments for contractors' off-highway type wheel tractors:					
	As reported in the census of manufactures.....		(X)	60.4	(X)	53.1
	As reported in Current Industrial Reports series MA-35D <sup>4</sup> .....		(X)	65.5	(X)	50.6
35313 21	Parts sold to other plants producing tracklaying tractors, contractors' off-highway type wheel tractors, and tractor shovel loaders.....		(X)	192.3		
35313 67	Parts (for replacement and repair) and attachments for wheel-type tractor shovel loaders.....		(X)	77.2	(X)	199.5
35313 00	Parts and attachments for tracklaying-type tractors, contractors' off-highway wheel tractors, and tractor shovel loaders, n.s.k.....		(X)	16.5	(X)	11.2

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3531- --	CONSTRUCTION MACHINERY--Continued					
35314 --	Power Cranes (Including Locomotive Full-Circle Revolving With Booms), Draglines, Shovels, and Parts.....		(X)	914.2	(X)	656.5
	Products included in the census of manufactures and also on Census Form MA-35D:					
35314 10	As reported in the census of manufactures.....		(X)	749.0	(X)	526.4
35314 20	As reported in Current Industrial Reports series MA-35D <sup>4</sup> .....		(X)	783.1	(X)	484.5
35314 81	Front end attachments, buckets, grapples, slings, etc., for power cranes, draglines, and shovels (sold separately).....		(X)	27.5	(X)	18.2
35314 85	Parts for power cranes, draglines, and shovels.....		(X)	129.5	(X)	108.1
35314 00	Power cranes (including locomotive full-circle revolving with booms), draglines, shovels, and parts, n.s.k.....		(X)	8.2	(X)	3.8
35316 --	Mixers, Pavers, and Related Equipment, Excluding Parts.....		(X)	252.0	(X)	162.3
	Products included in the census of manufactures and also on Census Forms MQ-35D and MA-35D:					
35316 20, 37, 40, 50	As reported in the census of manufactures.....		(X)	188.1	(X)	127.5
	As reported in Current Industrial Reports series MQ-35D and MA-35D <sup>5</sup> .....		(X)	184.3	(X)	112.8
35316 12	Mixers, portable, under 3-1/2 cubic foot capacity (except plaster and mortar), hand or power operated.....	1,000 units...	34.8	3.6	(NA)	.8
35316 31	Mixers, plaster and mortar.....	..do.....	26.5	15.4	7.9	3.6
35316 34	Pavers, finishers, and spreaders.....	..do.....	27.1	23.1	8.1	14.9
35316 39	Concrete vibrators, including screeds.....	..do.....	19.7	10.4	30.7	5.4
35316 52	Other materials--aggregate spreaders and soil stabilization pavers.....	..do.....	.5	6.3	(NA)	3.7
35316 00	Mixers, pavers, and related equipment, excluding parts, n.s.k..		(X)	5.1	(X)	6.4
35317 --	Tractor Shovel Loaders, Excluding Parts and Attachments.....		(X)	810.7	(X)	411.5
	Wheel type:					
35317 10	As reported in the census of manufactures.....		(X)	605.4	(X)	277.0
	As reported in Current Industrial Reports series MQ-35D and MA-35D <sup>1</sup> .....		(X)	592.8	(X)	281.2
35317 20	Tracklaying-type (20 net engine hp. and over):					
	As reported in the census of manufactures.....		(X)	205.3	(X)	134.5
	As reported in Current Industrial Reports series MA-35T <sup>6</sup> .....		(X)	208.9	(X)	125.8
35318 --	Scrapers, Graders, Rollers, and Off-Highway Trucks, Trailers, and Wagons (Excluding Parts):					
35318 10, 20, 30, 40, 50, 60, 70, 78, 80, 90	As reported in the census of manufactures.....		(X)	964.8	(X)	711.4
	As reported in Current Industrial Reports series MQ-35D and MA-35D <sup>1</sup> .....		(X)	947.9	(X)	657.2
35319 --	Other Construction Machinery and Equipment, Including Parts.....		(X)	913.0	(X)	613.9
	Products included in the census of manufactures and also on Census Forms MQ-35D and MA-35D:					
35319 20, 30, 70	As reported in the census of manufactures.....		(X)	123.7	(X)	98.2
	As reported in Current Industrial Reports series MQ-35D and MA-35D <sup>1</sup> .....		(X)	117.2	(X)	98.2
35319 05	Four-wheel drive, skid steer, loaders.....		(X)	( <sup>7</sup> )	(X)	( <sup>8</sup> )
35319 11	Dredging machinery, hydraulic and other types.....		(X)	21.1	(X)	19.7
35319 21	Railway maintenance of way equipment (rail layers, ballast spreaders, etc.), except railcars.....		(X)	35.4	(X)	26.9
35319 23	Horizontal and vertical earth augers and power post hole diggers, excluding waterwell and blast hole drills.....		(X)	32.1	(X)	8.2
35319 25	Well point systems.....	1,000 units...	( <sup>7</sup> )	( <sup>7</sup> )	(NA)	(NA)
35319 52	Winches, including winches for marine use (excluding winches for mounting on wheel or tracklaying tractors).....		(X)	76.3	(X)	41.0
35319 61	Derricks, except oil and gas well, including gallowes, frames, ginpole, stiff legs, and guy.....	1,000 units...	.5	6.3	1.0	3.3
35319 71	Hand-held compaction equipment, including tampers, upright and vibratory compactors, etc.....	..do.....	23.4	15.1	11.0	5.9

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3531- --	CONSTRUCTION MACHINERY--Continued					
35319 --	Other Construction Machinery and Equipment, Including Parts--Con.					
35319 81	Snow clearing attachments for mounting on tractors or trucks, including rotary snowplows, V-shaped snowplows, single blades and wings, and snowblowers.....		(X)	40.1	(X)	19.8
35319 83	Other excavating and road construction machinery, drawn ditchers and trenchers, contractors' hand-held air tools (other than compaction equipment), graders (other than motor graders), drawn rollers, as well as other types of excavating and earthmoving equipment not specified above.....		(X)	<sup>7</sup> 124.7	(X)	<sup>8</sup> 28.8
	Parts and attachments for construction machinery and equipment, except parts and attachments for powercranes, draglines, shovels, and tractors:					
35319 84	Sold to plants producing construction machinery and equipment.		(X)	82.7	(X)	278.6
35319 86	For replacement and repair.....		(X)	247.0		
35319 98	All other construction machinery and equipment, complete units..		(X)	85.4		
35319 00	Other construction machinery and equipment, including parts, n.s.k.....		(X)	23.1	(X)	27.7
35310 00	Construction machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	91.8	(X)	77.6
35310 02	Construction machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	25.9	(X)	6.9
3532- --	MINING MACHINERY, TOTAL.....		(X)	729.8	(X)	521.5
	Underground mining and mineral beneficiation machinery and equipment:					
35321 10	As reported in the census of manufactures.....		(X)	168.5	(X)	101.4
50	As reported in Current Industrial Reports Series MA-35F <sup>9</sup> .....		(X)	156.1	(X)	92.0
35322 00	Crushing, pulverizing, and screening machinery:					
	As reported in the census of manufactures.....		(X)	101.3	(X)	78.5
	As reported in Current Industrial Reports Series MA-35F <sup>9</sup> .....		(X)	96.3	(X)	72.3
35323 00	All other mining machinery and equipment:					
	As reported in the census of manufactures.....		(X)	93.5	(X)	50.1
	As reported in Current Industrial Reports Series MA-35F <sup>9</sup> .....		(X)	92.1	(X)	46.2
35324 --	Parts and Attachments for Mining Machinery and Equipment.....		(X)	331.1	(X)	257.2
35324 25	Construction rock drills (portable, hand held, or mounted).....	1,000 units...	12.2	17.7	10.6	21.8
	Percussion rock drill bits:					
35324 31	Containing tungsten carbide.....		(X)	38.7	(X)	20.9
35324 35	Made entirely of steel.....		(X)	6.6		
35324 41	Other drills, tools, and supplies for drills (sold separately)..		(X)	59.3	(X)	38.7
35324 75	Parts and attachments for mining machinery and equipment, sold separately (excluding drills).....		(X)	194.5	(X)	168.4
35324 00	Parts and attachments for mining machinery and equipment, n.s.k.		(X)	14.3	(X)	7.4
35320 00	Mining machinery, n.s.k., for mail cases. (See note.).....		(X)	30.0	(X)	31.9
35320 02	Mining machinery, n.s.k., for administrative record cases. (See note.).....		(X)	5.4	(X)	2.4
3533- --	OILFIELD MACHINERY, TOTAL.....		(X)	980.0	(X)	660.7
35331 --	Rotary Oilfield and Gasfield Drilling Machinery and Equipment.....		(X)	348.2	(X)	243.5
	Rotary drilling surface equipment:					
35331 11	Blocks, crown and traveling.....	Units.....	(NA)	4.0	253	1.3
35331 12	Draw works and accessories.....	do.....	84	11.0	83	9.0
35331 14	Rotary tables.....	do.....	158	2.1	156	1.5
35331 15	Elevators, spiders, slips, hooks, links, and connectors.....	do.....	(X)	13.6	(X)	5.3
35331 16	Swivels and accessories.....	do.....	(X)	2.7	(X)	3.9
35331 17	Well-control equipment (blow-out preventers, etc.).....	do.....	(X)	36.8	(X)	19.4
35331 19	Other rotary drilling surface machinery and equipment.....	do.....	(X)	32.3	(X)	21.1
	Rotary drilling subsurface equipment:					
35331 41	Bits.....	1,000 units...	327	129.8	588	110.0
35331 42	Reamers.....	do.....	(X)	8.5	(X)	3.8
35331 43	Coring equipment.....	do.....	(X)	( <sup>10</sup> )	(X)	2.2
35331 44	Tool joints, subs, and connectors.....	do.....	(X)	27.7	(X)	19.8
35331 45	Drill collars.....	1,000 units...	17	18.8	17	10.9
35331 47	Fishing and cutting tools.....	do.....	(X)	.7	(X)	8.3
35331 49	Other subsurface rotary drilling equipment, including Kelly joints.....	do.....	(X)	<sup>10</sup> 48.9	(X)	13.0
35331 00	Rotary oilfield and gasfield drilling machinery and equipment, n.s.k.....	do.....	(X)	11.3	(X)	13.0

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3533- --	OILFIELD MACHINERY--Continued					
35332 --	Other Oilfield and Gasfield Drilling Machinery and Equipment.....		(X)	87.0	(X)	43.5
35332 31	Cable tool drilling machinery and equipment (including both surface and subsurface equipment.).....		(X)	( <sup>11</sup> )	(X)	5.7
35332 51	Cementing, floating, guiding, and shoe equipment: Guide shoes, float collars, and combination guide and float shoes.....		(X)	8.6	(X)	8.4
35332 55	Other cementing equipment.....		(X)	12.6	(X)	9.9
35332 61	Parts for oilfield and gasfield drilling equipment sold separately, except parts for portable drilling rigs.....		(X)	22.9	(X)	13.7
35332 98	Other oilfield and gasfield drilling equipment, except portable.		(X)	<sup>11</sup> 42.9	(X)	5.8
35333 --	Oilfield and Gasfield Production Machinery and Equipment (Except Pumps.).....		(X)	376.5	(X)	260.5
35333 11	Flowing well equipment, surface and subsurface: Christmas tree assemblies.....		(X)	23.5	(X)	28.4
35333 13	Casing and tubing heads and supports.....		(X)	4.3	(X)	10.9
35333 15	Chokes, manifolds, and other accessories.....		(X)	10.0	(X)	15.4
35333 19	Rodless oil lifting machinery and equipment (except pumps)....		(X)	33.4	(X)	23.8
	Rod lifting machinery and equipment, surface, including pumps when they are components of a complete assembly:					
35333 53	Pumping units and accessories, including back crank equipment.	Units.....	( <sup>12</sup> )	( <sup>12</sup> )	6,089	28.8
35333 55	Other surface rod lifting machinery and equipment.....		(X)	6.5	(X)	1.6
35333 57	Rod lifting equipment, subsurface, except pumps.....	1,000 sucker rods.	(NA)	24.2	1,577	20.7
	Other production machinery and equipment:					
35333 61	Packers.....		(X)	57.5	(X)	38.7
35333 65	Screens, tubing, catchers, etc.....		(X)	8.1	(X)	11.0
35333 71	Oil and gas separating, metering, and treating equipment.....	1,000 separa- tors.	20	45.2	21	16.1
35333 81	Parts for oilfield and gasfield machinery and tools, sold separately, including parts for portable drilling rigs but excluding parts for other drilling equipment.....		(X)	39.3	(X)	11.2
35333 98	Other oilfield and gasfield production machinery and tools.....		(X)	<sup>12</sup> 121.5	(X)	38.8
35333 00	Oilfield and gasfield production machinery and equipment (except pumps), n.s.k.....		(X)	3.0	(X)	15.0
35334 --	Other Oilfield and Gasfield Machinery and Tools (Except Pumps), Including Waterwell.....		(X)	113.6	(X)	65.4
	Portable drilling rigs, permanently mounted on truck or trailer: Oilfield and gasfield:					
35334 11	Cable tool.....	Units.....	140	7.2	( <sup>13</sup> )	( <sup>13</sup> )
35334 13	Rotary rigs.....	do.....	(NA)	39.1	165	9.2
	Waterwell and blasthole:					
35334 15	Cable tool.....	do.....	(NA)	1.0	<sup>13</sup> 274	<sup>13</sup> 6.5
35334 17	Rotary rigs.....	do.....	285	16.2	100	4.8
35334 21	Derricks, oilfield and gasfield, substructures, and accessories--regular and portable (including equipment shipped "knocked down" and assembled on the site.).....	do.....	(NA)	34.0	(NA)	25.3
35334 31	Well surveying machinery and equipment.....		(X)	8.9	(X)	13.1
35334 00	Other oilfield and gasfield machinery and tools (except pumps), including waterwell, n.s.k.....		(X)	7.2	(X)	6.6
35330 00	Oilfield machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	44.1	(X)	44.9
35330 02	Oilfield machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	10.6	(X)	3.0
3534- --	ELEVATORS, AND MOVING STAIRWAYS, TOTAL.....		(X)	412.2	(X)	295.9
	Elevators, except farm and portable: Electric passenger, except residence lifts:					
35340 05	Gearless.....	Units.....	6,263	96.1	6,385	116.0
35340 07	Gearless.....	do.....	2,116	78.0		
35340 12	Hydraulic passenger.....	do.....	4,713	45.2	2,723	21.0
35340 13	Electric freight.....	do.....	523	5.8	856	7.1
35340 15	Hydraulic freight.....	do.....	1,195	15.6	1,685	9.5
35340 31	Automobile lifts (service station and garage type).....	do.....	46,004	33.1	45,178	26.6
35340 51	Moving stairways and escalators.....	do.....	993	24.4	732	14.4
35340 96	Other nonfarm elevators, including sidewalk elevators, dumb waiters, man lifts, hand-operated freight elevators, residence lifts, etc.....		(X)	30.4	(X)	16.8
35340 97	Parts and attachments for elevators and moving stairways (sold separately).....		(X)	42.3	(X)	56.0
35340 00	Elevators and moving stairways, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	39.0	(X)	26.4
35340 02	Elevators and moving stairways, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.3	(X)	2.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972	1967			
3535- --	CONVEYORS AND CONVEYING EQUIPMENT, TOTAL.....	825.6	655.4			
35351 --	Conveyors and Conveying Equipment, Except Hoists and Farm Elevators.....	658.8	478.9			
35351 11	Gravity conveyors (skate wheel and roller).....	32.3	45.3			
	Trolley/tow conveyor systems:					
35351 31	Overhead systems.....	68.1	44.0			
35351 33	Underfloor systems.....	11.2	(NA)			
35351 41	Pneumatic tube systems, including foot-power units.....	59.2	29.9			
35351 51	Portable conveyors, except farm.....	20.2	28.8			
35351 61	Underground mine conveyors and conveying systems.....					
	Other conveyors and conveying systems, including specially engineered conveyor installations:					
	Bulk material conveyors:					
35351 65	Belt conveyors and systems for bulk materials.....	139.4	186.0			
35351 66	Screw conveyors.....	35.2	38.0			
35351 68	Bucket elevators.....	14.1				
35351 69	Other bulk material conveyors, including apron conveyors, except screw, bucket, and belt conveyors.....	72.0				
	Unit conveyors:					
35351 72	Package-type conveyors.....	122.8	84.6			
35351 74	Heavy-type conveyors.....	39.2				
35351 00	Conveyors and conveying equipment, except hoists and farm elevators, n.s.k.....	45.1	22.3			
35352 11	Parts, Attachments, and Accessories for Conveyors and Conveying Systems, Sold Separately.....	107.1	118.6			
35350 00	Conveyors and conveying equipment, n.s.k., for establishments with 10 employees or more. (See note.).	46.9	49.7			
35350 02	Conveyors and conveying equipment, n.s.k., for establishments with less than 10 employees. (See note.).	12.8	8.2			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3536- --	HOISTS, CRANES, AND MONORAILS, TOTAL.....		(X)	446.0	(X)	<sup>14</sup> 385.3
35361 --	Hoists.....		(X)	167.4	(X)	144.9
35361 11	Hand chain hoists, ratchet lever, and wire rope pullers.....	1,000 units...	226.9	27.2	164.8	27.5
35361 13	Electric chain hoists (roller and link).....	do.....	57.2	13.8		
35361 14	Mineshaft and slope electric wire rope hoists.....		(X)	( <sup>15</sup> )	(X)	( <sup>15</sup> )
35361 16	Electric wire rope hoists.....	1,000 units...	(X)	28.3	29.1	31.0
35361 33	Air chain hoists.....	do.....	(NA)	8.7	11.6	11.5
35361 35	Air wire rope hoists.....	do.....	(NA)	4.2		
35361 38	Other hoists.....	do.....	(X)	<sup>15</sup> 51.8	(X)	<sup>15</sup> 46.1
35361 45	Parts and attachments for hoists (sold separately).....		(X)	23.6	(X)	22.0
35361 00	Hoists, n.s.k.....		(X)	9.8	(X)	6.6
35362 --	Overhead Traveling Cranes and Monorail Systems.....		(X)	253.5	(X)	<sup>14</sup> 215.1
	Overhead traveling cranes:					
	Electric overhead traveling:					
35362 12	Bridge type.....	1,000 units...	4.1	104.0	9.7	160.6
35362 11	Gantry type.....	do.....	.9	46.8	}	(NA)
35362 13	Stacker/storage type.....	do.....	.6	13.0		
35362 14	Other, including jib type.....	do.....	5.7	8.6		
35362 15	Hand power overhead traveling.....	do.....	.3	.9	1.9	2.3
35362 41	Automatic stacking machines.....	do.....	(NA)	<sup>16</sup> 25.6	(NA)	(NA)
	Monorail systems:					
35362 52	Powered systems.....	do.....	5.7	21.1	}	(NA)
35362 54	Manufal systems.....	do.....	3.1	3.9		
35362 55	Parts and attachments for overhead traveling cranes and mono- rail systems (sold separately).....		(X)	19.9	(X)	16.9
35362 57	Parts and attachments for automatic stacking machines.....		(X)	( <sup>16</sup> )	(X)	(NA)
35362 00	Overhead traveling cranes and monorail systems, n.s.k.....		(X)	9.7	(X)	3.8
35360 00	Hoists, cranes, and monorails, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	19.0	(X)	23.6
35360 02	Hoists, cranes, and monorails, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	6.1	(X)	1.7

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3537- --	INDUSTRIAL TRUCKS AND TRACTORS, TOTAL.....		(X)	1,004.8	(X)	<sup>17</sup> 780.7
35371 --	Industrial Trucks and Tractors <sup>18</sup> .....	1,000 units...	(X)	729.5	(X)	535.2
	Powered trucks and tractors:					
35371 11	Motorized handtrucks, pedestrian-controlled.....	1,000 units...	29.9	49.4	13.1	27.8
	Industrial trucks (operator riding) and tractors:					
	Electric (storage-battery, gas-electric, gasoline-electric, diesel-electric, or tethered electric powered):					
35371 23	Trucks, industrial.....	...do.....	19.2	156.8	20.7	120.9
35371 27	Tractors, industrial.....	...do.....	(NA)	13.6	1.3	2.8
	Internal-combustion powered:					
	Trucks, industrial:					
35371 36	Under 6,000-lb. capacity.....	...do.....	28.0	199.3	30.6	150.8
35371 37	6,000- to 14,999-lb. capacity.....	...do.....	21.5	127.6	10.7	67.2
35371 38	15,000-lb. capacity and over.....	...do.....	2.6	58.2	2.3	59.5
35371 43	Tractors, industrial.....	...do.....	2.8	9.4		
35371 49	All other industrial trucks (operator riding) and industrial tractors, including compressed-air powered, etc.....		(X)	30.3	(X)	18.8
35371 51	Portable elevators (stackers), excluding farm type.....	1,000 units...	(NA)	4.5	13.4	6.1
	Handtrucks and trailers, including dollies and platform trucks:					
35371 61	Handlift.....		(NA)	4.1	(X)	19.2
35371 65	Other handtrucks and trailers, including two-wheel and four- wheel dollies and platform trucks.....		(X)	53.6	(X)	36.3
35371 71	Metal pallets and skids (excluding wood and metal combination)	1,000 units...	(NA)	11.0	(NA)	25.9
35371 75	Palletizers and depalletizers (pallet loaders and unloaders) ..	...do.....	(NA)	11.7	(NA)	(NA)
35372 83	Parts and attachments for industrial trucks and tractors and miscellaneous materials handling equipment (except for automatic stacking machines) <sup>18</sup> .....		(X)	171.4	(X)	<sup>17</sup> 165.5
35370 00	Industrial trucks and tractors, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	90.3	(X)	73.8
35370 02	Industrial trucks and tractors, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	13.6	(X)	6.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

<sup>1</sup>See table 6A-3 for detailed product data.

<sup>2</sup>See table 6A-4 for detailed product data.

<sup>3</sup>See tables 6A-4 and 6A-5 for detailed product data.

<sup>4</sup>See table 6A-2 for detailed product data.

<sup>5</sup>See tables 6A-2 and 6A-3 for detailed product data.

<sup>6</sup>See table 6A-5 for detailed product data.

<sup>7</sup>1972 data for product codes 35319 05, Four-wheel drive, skid steer, loaders; and 35319 25, Well point systems, are included with product code 35319 83, Other excavating and road construction machinery, etc.

<sup>8</sup>1967 data for product code 35319 05, Four-wheel drive, skid steer, loaders, are included in product code 35319 83.

<sup>9</sup>See table 6A-6 for detailed product data from survey MA-35F.

<sup>10</sup>1972 data for product code 35331 43, Coring equipment, included with product code 35331 49, Other subsurface rotary drilling equipment, etc.

<sup>11</sup>1972 data for product code 35332 31, Cable tool drilling machinery and equipment, are included with product code 35332 98, Other oilfield and gasfield drilling equipment, except portable.

<sup>12</sup>1972 data for product code 35333 53, Pumping units and accessories, etc., are included with product code 35333 98, Other oilfield and gasfield production machinery and tools.

<sup>13</sup>1967 data for product code 35334 11, Oilfield and gasfield cable tools, are included with product code 35334 15, Water well and blasthole cable tools.

<sup>14</sup>1967 data excluded automatic stacking machines and parts and attachments for these machines.

<sup>15</sup>Data for product code 35361 14, Mineshaft and slope electric wire rope hoists, are included with product code 35361 38, Other hoists.

<sup>16</sup>1972 data for product code 35362 41, Automatic stacking machines, includes data for product code 35362 57, Parts and attachments for automatic stacking machines. For 1967, data for these products were included in industry 3537 and were not available separately.

<sup>17</sup>Data for automatic stackers and parts and attachments for automatic stackers were included in this industry in 1967 but were not shown separately. Effective in 1972, these products are moved to industry 3536, Hoists, Cranes, and Monorails, and their value of shipments is \$26.7 million.

<sup>18</sup>The product class structure in this industry has been significantly changed effective in 1972.

TABLE 6A-2. Quantity and Value of Shipments of Power Cranes and Shovels and Other Selected Construction Machinery: 1972 and 1967

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
			1972	
	Power Cranes, Draglines, and Shovels (Excavators), Including Mine Shovels, but Not Including Equipment for Mounting on Tractors, Total.....	Number units.....	11,503	748,781
	Excavators.....	...do.....	4,195	225,670
	Cable operated:			
	Crawler mounted:			
	Rated shovel capacity:			
35314 54	3/4 cu. yd. and under.....	...do.....	51	1,715
35314 55	Over 3/4 cu. yd. up to and including 1-1/4 cu. yd.....	...do.....	61	3,764
35314 56	Over 1-1/4 cu. yd. up to and including 2 cu. yd.....	...do.....	54	3,652
35314 57	Over 2 cu. yd. up to and including 3-1/2 cu. yd.....	...do.....	56	5,635
35314 58	Over 3-1/2 cu. yd. up to and including 5 cu. yd.....	...do.....	22	4,588
35314 59	Over 5 cu. yd. up to and including 10 cu. yd.....	...do.....	28	12,310
35314 60	Over 10 cu. yd. up to and including 15 cu. yd.....	...do.....	23	14,303
35314 61	Over 15 cu. yds. <sup>1</sup> .....	...do.....	(D)	(D)
35314 53	Rubber mounted <sup>1</sup> .....	...do.....	(D)	(D)
	Hydraulic operated:			
	Crawler mounted:			
	Rated shovel capacity:			
35314 62	3/8 cu. yd. up to and including 1 cu. yd.....	...do.....	2,487	85,712
35314 63	Over 1 cu. yd.....	...do.....	942	74,555
	Rubber mounted:			
	Rated shovel capacity:			
35314 64	3/8 cu. yd. up to and including 1 cu. yd.....	...do.....	271	19,436
35146 65	Over 1 cu. yd. <sup>1</sup> .....	...do.....	(D)	(D)
	Cranes.....	...do.....	7,219	474,351
	Cable operated:			
	Crawler mounted:			
	Maximum working load:			
35314 66	Up to and including 20 tons.....	...do.....	149	5,558
35314 67	Over 20 tons up to and including 35 tons.....	...do.....	256	13,158
35314 68	Over 35 tons up to and including 50 tons.....	...do.....	364	24,267
35314 69	Over 50 tons up to and including 80 tons.....	...do.....	234	24,667
35314 70	Over 80 tons up to and including 100 tons.....	...do.....	102	19,058
35314 71	Over 100 tons up to and including 125 tons.....	...do.....	54	8,184
35314 72	Over 125 tons.....	...do.....	189	47,774
	Rubber mounted:			
	Maximum working load:			
35314 73	Up to and including 20 tons.....	...do.....	180	7,890
35314 74	Over 20 tons up to and including 25 tons.....	...do.....	50	2,940
35314 75	Over 25 tons up to and including 35 tons.....	...do.....	393	13,947
35314 76	Over 35 tons up to and including 50 tons.....	...do.....	251	20,370
35314 77	Over 50 tons up to and including 75 tons.....	...do.....	242	27,116
35314 78	Over 75 tons up to and including 100 tons.....	...do.....	161	21,731
35314 79	Over 100 tons up to and including 125 tons.....	...do.....	29	5,513
35314 80	Over 125 tons.....	...do.....	89	16,855
	Hydraulic operated:			
35314 30	Crawler mounted <sup>1</sup> .....	...do.....	(D)	(D)
	Rubber mounted:			
	Maximum working load:			
35314 91	Up to and including 10 tons.....	...do.....	916	15,943
35314 92	Over 10 tons up to and including 15 tons.....	...do.....	1,566	64,438
35314 93	Over 15 tons up to and including 25 tons.....	...do.....	1,020	49,305
35314 94	Over 25 tons up to and including 50 tons.....	...do.....	748	56,922
35314 95	Over 50 tons.....	...do.....	226	28,715
35314 51	Walking draglines and walking cranes.....	...do.....	(D)	(D)
	Cranes (except construction power and overhead traveling cranes).. Locomotive (except wrecking)..... Full circle revolving with booms (whirleys and hammerheads)..... Other cranes (including locomotive wrecking).....	...do..... ...do..... ...do..... ...do.....	401 60 341	34,336 20,457 13,879
	Parts and attachments for contractors' off-highway wheel tractors.	...do.....	(X)	65,490
35313 11	Attachments.....	...do.....	(X)	9,944
35313 51	Parts.....	...do.....	(X)	55,546
	Concrete mixers, portable, 3-1/2 cu. ft. and over (except plaster and mortar).....	...do.....	10,804	55,409
35316 21	Truck mixer or agitator.....	...do.....	7,431	51,611
35316 25	Other than truck mixer or agitator.....	...do.....	3,373	3,798

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Power Cranes and Shovels and Other Selected Construction Machinery: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
			1967	
	Power Cranes, Draglines, and Shovels, Including Mine Shovels, but Not Including Equipment for Mounting on Tractors, Total.....	Number units.....	10,262	461,173
	Crawler mounted (hydraulic or cable operated).....	..do.....	3,579	206,443
	Excavators.....	..do.....	2,907	158,384
	Rated shovel capacity:			
35314 11	Under 3/8 cu. yd.....	..do.....	89	1,040
35314 13	3/8 cu. yd.....	..do.....	402	8,787
35314 15	1/2 cu. yd.....	..do.....	1,029	26,571
35314 17	3/4 cu. yd.....	..do.....	309	11,594
35314 18	1 cu. yd.....	..do.....	182	8,188
35314 19	1-1/4 cu. yd.....	..do.....	326	15,184
35314 20	1-1/2 cu. yd.....	..do.....	89	6,331
35314 22	1-3/4 cu. yd.....	..do.....	197	14,197
35314 24	2 cu. yd.....	..do.....	206	27,612
35314 25	2-1/2 cu. yd.....	..do.....	47	16,257
35314 27	Over 2-1/2 cu. yd. up to and including 5 cu. yd.....	..do.....	31	21,323
35314 28	Over 5 cu. yd. up to and including 10 cu. yd.....	..do.....		
35314 29	Over 10 cu. yd.....	..do.....		
35314 30	Cranes (hydraulic operated).....	..do.....	672	48,059
35314 31	Cranes (cable operated).....	..do.....		
	Rubber mounted (hydraulic or cable operated).....	..do.....	6,671	222,084
	Cranes.....	..do.....	6,239	209,317
	Maximum working load:			
35314 32	Up to and including 10 tons.....	..do.....	2,092	27,096
35314 34	Over 10 tons up to and including 15 tons.....	..do.....	1,921	50,903
35314 36	Over 15 tons up to and including 20 tons.....	..do.....	726	35,334
35314 38	Over 20 tons up to and including 25 tons.....	..do.....	426	17,174
35314 40	Over 25 tons up to and including 30 tons.....	..do.....	195	10,040
35314 42	Over 30 tons up to and including 35 tons.....	..do.....	198	11,957
35314 44	Over 35 tons up to and including 45 tons.....	..do.....	225	14,029
35314 46	Over 45 tons up to and including 60 tons.....	..do.....	206	16,303
35314 48	Over 60 tons up to and including 80 tons.....	..do.....	209	19,083
35314 50	Over 80 tons.....	..do.....	41	7,398
35314 52	Excavators (hydraulic operated).....	..do.....	432	12,767
35314 53	Excavators (cable operated).....	..do.....		
35314 51	Walking draglines and walking cranes.....	..do.....	12	32,646
	Cranes (except construction power and overhead traveling cranes)	..do.....	424	23,296
35314 03	Locomotive (except wrecking).....	..do.....	90	9,124
35314 05	Full circle revolving with booms (whirleys and hammerheads)...	..do.....	58	9,519
35314 07	Other cranes (including locomotive wrecking).....	..do.....	276	4,653
	Parts and attachments for contractors' off-highway wheel tractors.	.....	(X)	50,631
35313 11	Attachments.....	.....	(X)	6,500
35313 51	Parts.....	.....	(X)	44,131
	Concrete mixers, portable, 3-1/2 cu. ft. and over (except plaster and mortar).....	Number units.....	12,667	35,324
35316 31	Truck mixer or agitator.....	..do.....	4,669	29,650
35316 35	Other than truck mixer or agitator.....	..do.....	7,998	5,674

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>1972 totals for excavators exclude product codes 35314 61, crawler mounted, cable operated excavators over 15 cu. yd.; and 35314 53, rubber mounted, cable operated excavators. The 1972 total for excavators also excludes product code 35314 65, rubber mounted, hydraulic operated excavators over 1 cu. yd.

Source: Current Industrial Reports series MA-35D, "Construction Machinery."



TABLE 6A-3. Quantity and Value of Shipments of Selected Types of Construction Machinery: 1972 and 1967

1972 product code	Product	Unit of measure	1972 <sup>1</sup>		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	SELECTED TYPES OF CONSTRUCTION MACHINERY, TOTAL <sup>2</sup> .....	.....	(X)	2,057,659	(X)	1,213,143
	Wheel tractors (contractors' off-highway type) <sup>3</sup> .....	Number units..	6,603	202,023	2,765	77,746
	By horsepower rating (2- and 4-wheel):					
35311 21	Under 199 maximum engine hp.....	...do.....	1,792	43,790	914	11,467
35311 23	200 to 299 maximum engine hp.....	...do.....	634	23,434		
35311 25	300 to 399 maximum engine hp.....	...do.....	(D)	(D)	1,851	66,279
35311 27	400 to 499 maximum engine hp.....	...do.....	(D)	(D)		
35311 29	500 maximum engine hp. and over.....	...do.....	(D)	(D)		
	Rubber-tired dozers <sup>4</sup> .....	...do.....	351	17,002	(D)	(D)
35311 33	125 to 299 maximum engine horsepower.....	...do.....	351	17,002		
35311 35	300 maximum engine horsepower and over.....	...do.....			2,514	40,486
35311 37	Wheeled log skidders, self-propelled.....	...do.....	2,789	43,354		
	Mixers, pavers, and related equipment.....	...do.....	5,574	128,934	5,886	77,440
	Stabilization mixing equipment.....	...do.....	220	6,599	207	4,294
35316 54	Central plants.....	...do.....	220	6,599	207	4,294
35316 55	Mix-in-place.....	...do.....				
35316 37	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement).....	...do.....	699	25,722	864	15,891
	Bituminous.....	...do.....	4,655	96,613	4,815	57,255
35316 41	Distributors.....	...do.....	572	4,559	1,187	4,287
	Pavers, self-propelled.....	...do.....	811	33,119	684	16,921
35316 42	Under 20,000 lb. gross weight (basic unit).....	...do.....	811	33,119	256	3,637
35316 43	20,000 lb. - 49,999 lb. gross weight (basic unit).....	...do.....			428	13,284
35316 44	50,000 lb. gross weight and over (basic unit).....	...do.....				
	Asphalt plants:					
	Central mixing plants (batch-type and continuous type).....	...do.....	206	47,288	238	31,608
35316 45	Less than 2,000 lb. batch (less than 60 t.p.h.).....	...do.....			42	1,543
35316 46	2,000 lb. to 3,500 lb. batch (60 to 119 t.p.h.).....	...do.....	81	11,841	33	2,495
35316 47	4,000 lb. to 5,500 lb. batch (120 to 179 t.p.h.).....	...do.....			57	7,786
35316 48	6,000 lb. to 7,500 lb. batch (180 to 239 t.p.h.).....	...do.....	56	13,846	66	11,429
35316 49	8,000 lb. batch and over (240 t.p.h. and over).....	...do.....	69	21,601	40	8,355
35316 39	Other, including mixers, heating kettles, heaters, circulators, travel mix type asphalt boxes and spreader boxes.	...do.....	3,066	11,647	2,706	4,439
	Crushing plants, screening plants, washing plants, and combination plants.....	...do.....	271	23,481	( <sup>5</sup> )	( <sup>5</sup> )
	Portable.....	...do.....	271	23,481	360	19,795
35319 73	Under 150 tons per hour.....	...do.....	54	2,462	137	4,921
35319 75	150 tons per hour and over.....	...do.....	217	21,019	223	14,874
	Self-propelled continuous ditchers and trenchers (integral units only).....	...do.....	10,746	77,428	5,773	23,430
	Ladder-type digging elements.....	...do.....	10,099	39,998		
35319 14	Under 2,000 lb. gross weight.....	...do.....	8,725	27,018	4,886	10,949
35319 15	2,000 to 4,999 lb. gross weight.....	...do.....				
35319 17	5,000 lb. gross weight and over.....	...do.....	1,374	12,980	531	4,837
35319 18	Wheel-type digging element.....	...do.....	647	37,430	356	7,644
	Scrapers <sup>6</sup> .....	...do.....	4,790	132,819	4,980	151,011
	Conventional scraper bowls (dig, carrying, and hauling) used as part of a self-propelled, nonelevating, 2-wheel type scraper, S.A.E. struck rating:					
35318 12	7 cu. yd. and under 12 cu. yd. struck.....	...do.....				
35318 13	12 cu. yd. and under 18 cu. yd. struck.....	...do.....				
35318 14	18 cu. yd. and under 26 cu. yd. struck.....	...do.....	(D)	(D)	(D)	(D)
35318 15	26 cu. yd. and under 35 cu. yd. struck.....	...do.....				
35318 16	35 cu. yd. struck and over.....	...do.....				
	Elevating scraper bowls (dig, carrying and hauling) 2- and 4-wheel type, S.A.E. heaped rating:					
35318 17	7 cu. yd. and under 12 cu. yd. heaped.....	...do.....	1,652	23,804	(D)	(D)
35318 18	12 cu. yd. and under 18 cu. yd. heaped.....	...do.....			(D)	(D)
35318 19	18 cu. yd. and under 30 cu. yd. heaped.....	...do.....	436	12,744		
35318 21	30 cu. yd. and under 37 cu. yd. heaped.....	...do.....	(D)	(D)	(D)	(D)
35318 27	37 cu. yd. heaped and over.....	...do.....	-	-		
	All other scraper bowls, towed type, 2- and 4-wheel and other scraper bowls not elsewhere reported:					
35318 32	Under 7 cu. yd. struck.....	...do.....	(D)	(D)	(D)	(D)
35318 33	7 cu. yd. and under 14 cu. yd. struck.....	...do.....			(D)	(D)
35318 38	14 cu. yd. struck and over.....	...do.....				

See footnotes at end of table.

TABLE 6A-3. Quantity and Value of Shipments of Selected Types of Construction Machinery: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	1972 <sup>1</sup>		1967	
			Quantity	Value	Quantity	Value
				(\$1,000)		(\$1,000)
	SELECTED TYPES OF CONSTRUCTION MACHINERY--Continued					
	Motor graders and light maintainers.....	Number units..	6,524	154,812	7,427	124,912
35318 22	Under 45 brake hp.....	..do.....	-	-	}	}
35318 23	45 to 74 brake hp.....	..do.....	581	5,619		
35318 24	75 to 114 brake hp.....	..do.....	4,005	90,804		
35318 25	115 to 144 brake hp.....	..do.....				
35318 26	145 brake hp. and over.....	..do.....	1,938	58,389	4,520	76,387
					1,306	30,925
	Pullers self-propelled type.....	..do.....	7,562	88,910	5,792	37,608
	Steel wheel.....	..do.....	3,804	24,434	3,891	18,957
35318 31	3-wheeled and segmented.....	..do.....	187	3,688	613	4,521
	Tandem, 2- and 3-axle (not metal weight).....	..do.....	3,617	20,746	3,278	14,436
35318 34	Under 3 tons.....	..do.....	1,843	4,229	1,450	1,895
35318 35	4 tons (3 tons thru 4-1/2 tons).....	..do.....	757	5,404	711	3,323
35318 36	5 tons (above 4-1/2 tons thru 7-1/2 tons).....	..do.....	319	2,783	466	3,233
35318 37	8 tons and over.....	..do.....	698	8,330	651	5,985
	Pneumatic tire.....	..do.....	1,094	13,113	912	8,895
35318 51	4,000 lb. wheel load and under.....	..do.....	767	6,013	589	3,697
35318 52	Over 4,000 lb. up to and including 8,000 lb. wheel load.....	..do.....	278	5,692	222	3,248
35318 54	Over 8,000 lb. wheel load.....	..do.....	49	1,408	101	1,950
35318 39	Sheepsfoot.....	..do.....	429	16,090	110	3,512
35318 41	Vibratory compactors.....	..do.....	2,235	35,273	879	6,244
	Rollers, towed type.....	..do.....	909	4,200	1,876	6,688
35318 42	Pneumatic tire including vibratory.....	..do.....	82	538	531	1,110
35318 49	Sheepsfoot and bar-type.....	..do.....	410	1,389	844	2,610
35318 55	Vibratory, single steel drum.....	..do.....	417	2,273	501	2,968
35318 58	All other rollers.....	..do.....	360	450	(D)	(D)
	Construction machinery for mounting on tractors, shovel loaders, or other prime movers <sup>4</sup> .....	..do.....	(X)	292,956	(X)	171,314
	Sidebooms or pipehandlers.....	..do.....	643	7,913	(D)	(D)
35318 71	Under 30,000 lb. lift capacity.....	..do.....	643	7,913	(D)	(D)
35318 72	30,000 to 110,000 lb. lift capacity.....	..do.....				
35318 73	Over 110,000 lb. lift capacity.....	..do.....				
	Dozers (6 foot blade length and over).....	..do.....	17,707	67,800	17,987	45,354
	Hydraulically operated:					
35318 74	For wheel tractors.....	..do.....	(D)	(D)	}	}
35318 75	For crawler tractors.....	..do.....				
	Cable operated:					
35318 76	For wheel tractors.....	..do.....	(D)	(D)	}	}
35318 77	For crawler tractors.....	..do.....				
35318 78	Winches-towing, logging and oilfield types.....	..do.....	(D)	(D)	(D)	(D)
35318 79	Backhoes for wheel or tracklaying tractors, including shovel loaders.....	..do.....	}	}	}	}
35318 81	All other backhoes.....	..do.....				
35318 82	Front-end loaders (3/8 cu. yd. and over), nonfarm type <sup>5</sup> .....	..do.....				
35318 83	Logging arches.....	..do.....	(D)	(D)	(D)	(D)
35318 84	Cranes.....	..do.....	-	-	(D)	(D)
35318 85	Cable power control units.....	..do.....	(D)	(D)	(D)	(D)
35318 86	Hydraulic power control units.....	..do.....	(D)	(D)	(D)	(D)
35318 87	Rippers and rooters, heavy rear mounted.....	..do.....	5,375	23,898	6,795	15,073
	Continuous ditching and trenching attachments:					
35318 88	Crawler-vehicle mounted.....	..do.....	(D)	(D)	}	}
35318 89	Rubber-tired vehicle mounted.....	..do.....	(D)	(D)		
	Off-highway equipment <sup>7</sup> .....	..do.....	6,058	273,735	4,569	165,615
	Rear dump earth, rocks, and ore load on back haulers.....	..do.....	2,014	168,522	1,700	109,150
35318 55	Under 20 tons capacity.....	..do.....	}	}	}	}
35318 57	20 tons to and including 30 tons capacity.....	..do.....				
35318 59	Over 30 tons up to and including 45 tons capacity.....	..do.....				
35318 65	Over 45 tons up to and including 70 tons capacity.....	..do.....	960	64,364	619	31,897
35318 69	Over 70 tons up to and including 100 tons capacity.....	..do.....	394	36,922	}	}
35318 70	Over 100 tons capacity.....	..do.....	265	49,869		
	Truck-tractor type haulers:					
35318 61	Under 60,000 lb. gross vehicle weight.....	..do.....	}	}	}	}
35318 62	60,000 lb. gross vehicle weight and over.....	..do.....				
	All other, including off-highway type truck chassis:					
35318 63	Under 60,000 lb. gross vehicle weight.....	..do.....	3,839	92,115	2,700	52,312
35318 64	60,000 lb. gross vehicle weight and over.....	..do.....				

See footnotes at end of table.

TABLE 6A-3. Quantity and Value of Shipments of Selected Types of Construction Machinery: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	1972 <sup>1</sup>		1967	
			Quantity	Value	Quantity	Value
				(\$1,000)		(\$1,000)
	SELECTED TYPES OF CONSTRUCTION MACHINERY--Continued					
	Truck-tractor type haulers--Continued					
	Off-highway trailers and wagons (end, side, and bottom dump)....	Number units..	205	13,098	(D)	(D)
35318 66	Under 12 cu. yd. standard struck capacity.....	...do.....	205	13,098	(D)	(D)
35318 67	12 cu. yd. and under 18 cu. yd. standard struck capacity.....	...do.....				
35318 68	18 cu. yd. standard struck capacity and over.....	...do.....				
	Tractor shovel loaders.....	...do.....	35,598	592,815	15,185	281,180
	4-wheel drive skid steer:					
35317 19	Under 35 hp.....	...do.....	10,415	36,889	(NA)	(NA)
35317 21	Over 35 hp.....	...do.....	3,675	19,633		
	Wheel type, front-end loader (integral design, rear engine mount).	...do.....	(D)	(D)	13,610	265,492
	4-wheel drive:					
35317 03	Under 1 cu. yd. bucket capacity.....	...do.....	1,266	14,973	-	-
35317 04	1 cu. yd. and under 1-1/2 cu. yd.....	...do.....			1,177	10,973
35317 05	1-1/2 cu. yd. and under 2 cu. yd.....	...do.....	3,963	73,562	3,091	40,328
35317 06	2 cu. yd. and under 2-1/2 cu. yd.....	...do.....	1,997	48,464	2,455	44,904
35317 07	2-1/2 cu. yd. and under 3-1/2 cu. yd.....	...do.....	3,151	92,463	3,378	76,077
35317 08	3-1/2 cu. yd. and under 5 cu. yd.....	...do.....	2,123	86,593	1,139	36,448
35317 15	5 cu. yd. and under 7-1/2 cu. yd.....	...do.....	1,521	99,114	933	47,846
35317 16	7-1/2 cu. yd. and under 10 cu. yd.....	...do.....	361	42,200		
35317 17	10 cu. yd. and over.....	...do.....				
	2-wheel drive:					
35317 11	Under 1 cu. yd. bucket capacity.....	...do.....	(D)	(D)	(D)	(D)
35317 12	1 cu. yd. bucket capacity and over.....	...do.....				
35317 13	Front engine mount, integral design tractor shovel loader/backhoe.....	...do.....	(D)	(D)	(D)	(D)
	Portable water-well and blast-hole drills.....	...do.....	303	24,740	776	51,651
35319 28	Churn-drill type.....	...do.....	69	907	776	51,651
35319 29	Rotary-drill type.....	...do.....	234	23,833		

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing the operations of individual companies.

<sup>1</sup>Totals include the value of products withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Represents wheeled tractors designed primarily to be used as towing units for scrapers, trailers, wagons, and similar types of towed equipment for use on natural terrain but restricted by State laws or regulations from operating on public highways.

<sup>3</sup>Machines shipped primarily as independent dozing or pushing units characterized with approximate equal weight distribution fore and aft with all-wheel drive as differentiated from machines designed for integral hookup towing.

<sup>4</sup>Excludes value of prime mover when sold with machine.

<sup>5</sup>1967 data for "other aggregate processing plants" (code 35319 45, "under 150 tons per hour"; and code 35319 47, "150 tons per hour and over") have been withheld. It has been determined that plants reported in these categories are of the stationary type and are included in Current Industrial Reports series MA-35F, Mining Machinery.

<sup>6</sup>Excludes front-end loaders shipped to producers of complete tractor-shovel loaders (integral units).

<sup>7</sup>Represents vehicles normally operating off the public highway and specifically designed to transport materials and property; or equipment on mining, construction, logging, petroleum developments, and similar projects. These vehicles are of such weight as to be normally restricted by State law or regulation from operating on public highways.

Source: Current Industrial Reports series MA-35D, Construction Machinery.



**TABLE 6A-4. Quantity and Value of Shipments of Tracklaying Tractors (Except Shovel Loaders)  
by Horsepower: 1972 and 1967**

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	TRACKLAYING TRACTORS (EXCEPT SHOVEL LOADERS), TOTAL.....		(X)	878,149	(X)	646,878
	Complete tractors.....	Number units..	21,225	546,031	20,861	377,787
35312 11	20 to 44 net engine hp.....	..do.....	3,670	34,103	3,095	14,054
35312 13	45 to 59 net engine hp.....	..do.....				
35312 15	60 to 89 net engine hp.....	..do.....	8,918	158,914	2,465	22,555
35312 17	90 to 129 net engine hp.....	..do.....				
35312 19	130 to 199 net engine hp.....	..do.....	3,605	249,802	8,887	176,596
35312 21	200 to 299 net engine hp.....	..do.....				
35312 23	300 net engine hp. and over.....	..do.....	5,032	249,802	4,155	149,403
	Attachments and parts <sup>1</sup> .....		(X)	332,118	(X)	269,091
35313 66	Attachments.....		(X)	30,309	(X)	23,922
35313 67	Parts.....		(X)	301,809	(X)	245,169

(X) Not applicable.

<sup>1</sup>Data are limited to attachments and parts shipped by companies manufacturing complete tractors.

Source: Current Industrial Reports series M35S, "Tractors, Except Garden Tractors."

**TABLE 6A-5. Quantity and Value of Shipments of Tracklaying Tractor Shovel  
Loaders by Horsepower: 1972 and 1967**

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	TRACKLAYING TRACTOR SHOVEL LOADERS, TOTAL.....		(X)	363,661	(X)	209,233
	Complete units.....	Number units..	10,454	208,876	8,397	125,825
35317 11	20 to 44 net engine hp.....	..do.....	2,199	24,257	3,446	28,001
35317 13	45 to 59 net engine hp.....	..do.....				
35317 15	60 to 89 net engine hp.....	..do.....	3,966	60,031	1,080	15,063
35317 17	90 to 129 net engine hp.....	..do.....				
35317 19	130 to 199 net engine hp.....	..do.....	4,289	124,588	3,871	82,761
35317 21, 23	200 net engine hp. and over.....	..do.....				
	Attachments and parts <sup>1</sup> .....		(X)	154,785	(X)	83,408
35313 76	Attachments.....		(X)	10,422	(X)	10,254
35313 77	Parts.....		(X)	144,363	(X)	73,154

(X) Not applicable.

<sup>1</sup>Data are limited to attachments and parts shipped by companies manufacturing complete tractor shovel loaders.

Source: Current Industrial Reports series M35S, "Tractors, Except Garden Tractors."

TABLE 6A-6. Quantity and Value of Shipments of Mining Machinery and Equipment: 1972 and 1967

1972 product code	Product	1972		1967	
		Quantity (units)	Value (\$1,000)	Quantity (units)	Value (\$1,000)
35321 --	Underground Mining Machinery and Related Mining Equipment.....	(X)	156,071	(X)	92,007
	Mining machinery and equipment.....	(X)	123,889	(X)	66,246
35321 14,47	Cutting machines (shortwall, universal and coal recovery augers).....	719	40,210	103	8,123
35321 16,18	Longwall mining machines, coal types (plows and shearer or cutter loader).....				
	Loading machines (underground mine):				
35321 32,34	Gathering arm type.....			176	8,399
35321 36	Shovel type and slusher hoists.....			499	6,000
	Continuous mining machines, borer and ripper:				
35321 41	Coal.....	299	48,393	200	20,164
35321 42	Other than coal.....				
35321 71,74	Shuttle cars (rubber tired, self-propelled).....	3,884	35,286	440	16,020
35321 75	Mine cars, track.....			3,290	7,540
	Mineral Classifying, Flotation, Separating, Concentrating, Cleaning, Clarifying, and Related Equipment.....	(X)	32,182	(X)	25,761
35321 52	Flotation machines (quantity represents number of cells).....	578	1,947	2,593	3,135
35321 54	Jigs.....	145	2,213	46	647
35321 55	Concentrating tables.....			(D)	(D)
35321 56	Classifiers (sizing, washing, and dewatering), excluding cyclones	405	4,798	480	4,338
35321 57	Wet cyclones (including heavy medium cyclones).....	1,029	1,088	(D)	(D)
35321 59	Centrifugal driers.....	101	1,818	138	2,496
35321 61	Scrubbers (all types, including drums, logwashers, attritioning machines, etc.).....	84	1,388	83	939
35321 62	Thermal dryers.....	38	3,016	20	1,604
35321 66	Feeders (apron, vibrating, and reciprocating).....	1,301	10,006	1,357	6,936
35321 67	Magnetic separators (quantity represents number of drums).....	283	1,482	340	1,598
35321 53, 58, 63, 64, 65	Other mineral classifying, flotation, separating, concentrating, cleaning, clarifying, and related equipment <sup>1</sup> .....	(X)	4,426	(X)	1,526
35322 --	Crushing, Pulverizing, and Screening Machinery (Stationary).....	(X)	96,281	(X)	72,339
	Crushers (including crushers on skids):				
35322 10,12	Gyratory (all types).....	469	20,613	409	16,391
35322 13	Impact.....	554	11,683	654	8,436
35322 17	Jaw.....	254	4,234	247	3,977
35322 19	Roll.....	533	11,676	250	7,349
	Grinding mills:				
35322 33	Ball (including pebble mills).....	168	11,040	321	11,546
35322 37	Rod.....	5	477	26	2,133
35322 55	Screens (vibrating, trommell, mine type).....	4,240	36,558	4,103	22,547
35323 --	All Other Mining Machinery and Equipment.....	(X)	92,075	(X)	46,238
	Drills:				
35323 23	Rock drills (percussion type).....	10,024	25,650	10,276	13,759
35323 13	Core drills for mineral exploration.....			623	2,615
	Rotary drills:				
35323 43	Underground (coal and roof).....	500	11,125	478	12,576
35323 45	Surface (blast hole).....	211	27,684		
35323 98	Other mining machinery and equipment (complete units) <sup>2</sup> .....	(X)	27,616	(X)	17,288

(X) Not applicable. (D) Withheld to avoid disclosing the operations of individual companies.

<sup>1</sup>Includes figures for dense medium vessels (35321 53), centrifuges (35321 58), concentrating spirals (35321 63), thickeners (35321 64), and filters (35321 65).<sup>2</sup>Includes power roof supports for longwall mining but excludes parts and attachments for mining machines.

Source: Current Industrial Reports series MA-35F, "Mining Machinery and Equipment."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CONTRACTORS OFF-HIGHWAY WHEEL TRACTORS, EXCEPT PARTS (35311) <sup>1</sup>			PARTS AND ATTACHMENTS FOR TRACTORS AND TRACTOR SHOVEL LOADERS (35313)—Continued		
United States.....	251.5	(NA)	West Region.....	42.3	(NA)
North Central Region.....	213.3	(NA)	Mountain Division.....	AA	(NA)
East North Central Division.....	GG	(NA)	Utah.....	AA	(NA)
Ohio.....	FF	(NA)	Pacific Division.....	FF	(NA)
Indiana.....	BB	(NA)	Washington.....	BB	(NA)
Illinois.....	GG	(NA)	Oregon.....	EE	(NA)
Michigan.....	BB	(NA)	California.....	FF	(NA)
West North Central Division.....	FF	(NA)			
Minnesota.....	EE	(NA)	POWER CRANES, DRAGLINES, SHOVELS, AND PARTS (35314)		
Iowa.....	FF	(NA)	United States.....	914.2	656.5
South Region.....	FF	(NA)	Northeast Region.....	140.6	66.5
South Atlantic Division.....	FF	(NA)	New England Division.....	BB	-
Virginia.....	EE	(NA)	Connecticut.....	BB	-
Georgia.....	EE	(NA)	Middle Atlantic Division.....	GG	65.5
East South Central Division.....	BB	(NA)	New York.....	FF	EE
Mississippi.....	BB	(NA)	Pennsylvania.....	GG	FF
West South Central Division.....	FF	(NA)			
Oklahoma.....	FF	(NA)	North Central Region.....	706.3	556.5
Texas.....	CC	(NA)	East North Central Division.....	490.8	440.0
West Region.....	AA	(NA)	Ohio.....	120.7	123.7
Pacific Division.....	AA	(NA)	Indiana.....	66.9	49.6
			Illinois.....	FF	FF
TRACKLAYING-TYPE TRACTORS, EXCEPT PARTS AND ATTACHMENTS (35312) <sup>1</sup>			Michigan.....	GG	GG
United States.....	564.0	(NA)	Wisconsin.....	204.4	175.2
North Central Region.....	GG	(NA)	West North Central Division.....	215.4	116.5
East North Central Division.....	GG	(NA)	Minnesota.....	57.1	GG
Ohio.....	EE	(NA)	Iowa.....	145.9	GG
Illinois.....	480.3	(NA)	Missouri.....	CC	CC
Wisconsin.....	BB	(NA)	Nebraska.....	AA	-
West North Central Division.....	GG	(NA)	Kansas.....	BB	AA
Iowa.....	GG	(NA)	South Region.....	45.7	19.6
West Region.....	BB	(NA)	South Atlantic Division.....	1.9	BB
Mountain Division.....	BB	(NA)	Florida.....	AA	-
Utah.....	BB	(NA)	East South Central Division.....	EE	CC
			Tennessee.....	EE	CC
PARTS AND ATTACHMENTS FOR TRACTORS AND TRACTOR SHOVEL LOADERS (35313) <sup>1</sup>			Mississippi.....	AA	-
United States.....	865.7	(NA)	West South Central Division.....	FF	CC
Northeast Region.....	GG	(NA)	Louisiana.....	CC	BB
New England Division.....	AA	(NA)	Oklahoma.....	CC	-
Massachusetts.....	AA	(NA)	Texas.....	13.2	BB
Middle Atlantic Division.....	GG	(NA)	West Region.....	21.6	14.9
New York.....	AA	(NA)	Mountain Division.....	CC	-
Pennsylvania.....	GG	(NA)	Colorado.....	CC	-
North Central Region.....	672.2	(NA)	Pacific Division.....	EE	EE
East North Central Division.....	569.4	(NA)	Washington.....	CC	5.0
Ohio.....	48.9	(NA)	Oregon.....	AA	-
Indiana.....	EE	(NA)	California.....	6.7	9.8
Illinois.....	359.2	(NA)			
Michigan.....	GG	(NA)	MIXERS, PAVERS, AND RELATED EQUIPMENT, EXCEPT PARTS (35316)		
Wisconsin.....	89.9	(NA)	United States.....	252.0	162.3
West North Central Division.....	102.8	(NA)	Northeast Region.....	23.2	9.6
Minnesota.....	CC	(NA)	Middle Atlantic Division.....	22.5	9.6
Iowa.....	85.9	(NA)	New York.....	4.9	2.1
North Dakota.....	CC	(NA)	New Jersey.....	5.9	3.1
South Region.....	FF	(NA)	Pennsylvania.....	11.7	4.4
South Atlantic Division.....	6.0	(NA)	North Central Region.....	154.0	123.3
Virginia.....	BB	(NA)	East North Central Division.....	135.4	97.1
Georgia.....	BB	(NA)	Ohio.....	26.2	23.3
East South Central Division.....	FF	(NA)	Indiana.....	EE	EE
Kentucky.....	FF	(NA)	Illinois.....	61.0	39.5
Tennessee.....	BB	(NA)	Wisconsin.....	29.0	21.3
West South Central Division.....	7.7	(NA)	West North Central Division.....	18.6	26.2
Oklahoma.....	1.8	(NA)	Minnesota.....	4.0	BB
Texas.....	CC	(NA)	Iowa.....	CC	18.4
			Missouri.....	BB	BB
			South Dakota.....	CC	-
			South Region.....	34.9	10.0
			South Atlantic Division.....	BB	1.4
			North Carolina.....	AA	-

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MIXERS, PAVERS, AND RELATED EQUIPMENT, EXCEPT PARTS (35316)—Continued			OTHER CONSTRUCTION MACHINERY, EQUIPMENT, AND PARTS (35319)		
South Region--Continued			United States.....	913.0	613.9
West South Central Division.....	31.2	5.8	Northeast Region.....	55.7	46.4
Oklahoma.....	FF	-	New England Division.....	16.0	8.1
Texas.....	CC	BB	Maine.....	CC	BB
West Region.....	39.9	19.3	Massachusetts.....	6.3	BB
Mountain Division.....	AA	2.2	Connecticut.....	BB	-
Colorado.....	AA	-	Middle Atlantic Division.....	39.7	38.3
Pacific Division.....	FF	17.1	New York.....	9.2	12.5
Oregon.....	BB	-	New Jersey.....	5.6	3.4
California.....	FF	EE	Pennsylvania.....	24.9	22.4
TRACTOR SHOVEL LOADERS, EXCEPT PARTS AND ATTACHMENTS (35317)			North Central Region.....	593.7	404.1
United States.....	810.7	411.5	East North Central Division.....	452.8	314.0
Northeast Region.....	EE	EE	Ohio.....	126.3	86.1
Middle Atlantic Division.....	EE	EE	Indiana.....	14.0	14.5
New York.....	EE	EE	Illinois.....	128.7	100.2
North Central Region.....	GG	387.5	Michigan.....	50.5	23.2
East North Central Division.....	GG	GG	Wisconsin.....	133.4	90.1
Ohio.....	FF	EE	West North Central Division.....	141.0	90.1
Indiana.....	FF	-	Minnesota.....	52.6	28.9
Illinois.....	497.5	300.4	Iowa.....	29.3	36.4
Michigan.....	GG	FF	Missouri.....	12.0	CC
West North Central Division.....	GG	37.4	North Dakota.....	FF	CC
Iowa.....	GG	FF	Nebraska.....	AA	AA
Missouri.....	BB	-	Kansas.....	FF	9.6
South Region.....	3.0	-	South Region.....	171.5	108.8
South Atlantic Division.....	AA	-	South Atlantic Division.....	40.8	27.4
West South Central Division.....	AA	-	Maryland.....	CC	CC
Oklahoma.....	AA	-	Virginia.....	BB	BB
SCRAPERS, GRADERS, OFF-HIGHWAY TRUCKS, WAGONS, ETC. (35318)			West Virginia.....	BB	-
United States.....	964.8	711.4	North Carolina.....	AA	BB
Northeast Region.....	66.4	21.4	South Carolina.....	EE	BB
Middle Atlantic Division.....	GG	21.4	Georgia.....	BB	CC
New York.....	AA	-	Florida.....	CC	3.3
New Jersey.....	EE	AA	East South Central Division.....	24.0	18.4
Pennsylvania.....	GG	EE	Kentucky.....	BB	-
North Central Region.....	728.2	600.4	Tennessee.....	BB	CC
East North Central Division.....	615.9	516.1	Alabama.....	EE	EE
Ohio.....	124.0	126.8	Mississippi.....	AA	-
Indiana.....	CC	FF	West South Central Division.....	106.7	63.0
Illinois.....	414.5	334.3	Louisiana.....	BB	-
Michigan.....	FF	EE	Oklahoma.....	51.1	33.7
Wisconsin.....	FF	20.3	Texas.....	52.0	28.2
West North Central Division.....	112.3	84.3	West Region.....	92.1	54.6
Minnesota.....	32.7	EE	Mountain Division.....	13.4	9.9
Iowa.....	44.7	31.3	Colorado.....	8.9	CC
Missouri.....	EE	EE	Arizona.....	BB	-
Nebraska.....	CC	AA	Pacific Division.....	78.7	44.7
Kansas.....	10.8	6.9	Washington.....	30.8	EE
South Region.....	121.2	70.0	Oregon.....	13.5	CC
South Atlantic Division.....	18.6	EE	California.....	34.4	19.2
North Carolina.....	BB	AA	UNDERGROUND MINING AND MINERAL BENEFICIATION EQUIPMENT (35321)		
South Carolina.....	AA	-	United States.....	168.5	101.4
Georgia.....	CC	EE	Northeast Region.....	73.7	45.0
Florida.....	AA	-	Middle Atlantic Division.....	GG	FF
East South Central Division.....	1.6	-	Pennsylvania.....	GG	FF
West South Central Division.....	101.0	54.9	North Central Region.....	34.7	25.1
Louisiana.....	BB	-	East North Central Division.....	27.9	19.8
Oklahoma.....	FF	FF	Ohio.....	FF	9.5
Texas.....	40.3	25.3	Illinois.....	AA	9.7
West Region.....	49.2	19.7	Michigan.....	2.6	-
Pacific Division.....	FF	17.0	Wisconsin.....	BB	-
Washington.....	EE	CC	West North Central Division.....	6.8	5.3
Oregon.....	CC	BB	Minnesota.....	BB	AA
California.....	FF	6.2	Iowa.....	BB	BB
			South Region.....	32.7	13.9
			South Atlantic Division.....	EE	8.8
			Virginia.....	BB	BB
			West Virginia.....	14.5	6.1
			South Carolina.....	AA	-
			East South Central Division.....	EE	CC
			Kentucky.....	EE	BB

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
UNDERGROUND MINING AND MINERAL BENEFICIATION EQUIPMENT (35321)--Continued			PARTS AND ATTACHMENTS FOR MINING MACHINERY AND EQUIPMENT (35324)		
West Region.....	27.5	17.5	United States.....	331.1	257.2
Mountain Division.....	15.3	13.5	Northeast Region.....	121.8	95.8
Colorado.....	CC	8.4	New England Division.....	FF	17.0
Utah.....	CC	CC	Maine.....	BB	BB
Pacific Division.....	12.2	3.9	New Hampshire.....	EE	EE
Oregon.....	CC	-	Massachusetts.....	BB	-
California.....	BB	3.8	Middle Atlantic Division.....	GG	78.8
CRUSHING, PULVERIZING, AND SCREENING MACHINERY (35322)			New York.....	AA	AA
United States.....	101.3	78.5	New Jersey.....	EE	EE
Northeast Region.....	15.0	25.4	Pennsylvania.....	87.0	GG
New England Division.....	AA	BB	North Central Region.....	93.1	94.5
Maine.....	AA	BB	East North Central Division.....	84.3	85.8
Middle Atlantic Division.....	EE	FF	Ohio.....	24.5	23.4
New York.....	AA	BB	Illinois.....	16.8	16.4
New Jersey.....	AA	CC	Michigan.....	CC	8.8
Pennsylvania.....	10.4	14.8	Wisconsin.....	FF	35.7
North Central Region.....	65.7	47.2	West North Central Division.....	8.8	8.8
East North Central Division.....	48.9	36.5	Minnesota.....	AA	BB
Ohio.....	CC	6.0	Iowa.....	BB	BB
Indiana.....	AA	BB	Missouri.....	AA	BB
Illinois.....	BB	-	Kansas.....	BB	AA
Michigan.....	AA	AA	South Region.....	64.4	29.6
Wisconsin.....	34.2	25.2	South Atlantic Division.....	23.8	13.9
West North Central Division.....	16.8	10.7	Virginia.....	CC	5.6
Minnesota.....	AA	AA	West Virginia.....	10.7	8.2
Iowa.....	BB	BB	South Carolina.....	BB	-
Missouri.....	6.6	5.4	Florida.....	AA	-
Kansas.....	CC	-	East South Central Division.....	10.8	6.2
South Region.....	11.1	BB	Kentucky.....	CC	CC
South Atlantic Division.....	8.6	BB	Alabama.....	BB	-
West Virginia.....	2.5	-	West South Central Division.....	29.8	9.5
South Carolina.....	CC	BB	Oklahoma.....	AA	-
West South Central Division.....	2.5	-	Texas.....	28.3	CC
Texas.....	2.5	-	West Region.....	51.8	37.3
West Region.....	9.5	AA	Mountain Division.....	42.6	33.0
Pacific Division.....	CC	AA	Colorado.....	FF	FF
Oregon.....	BB	-	Arizona.....	AA	-
California.....	BB	-	Utah.....	10.7	CC
ALL OTHER MINING MACHINERY AND EQUIPMENT (35323) <sup>1</sup>			Pacific Division.....	9.3	4.4
United States.....	93.5	(NA)	Oregon.....	BB	-
Northeast Region.....	7.7	(NA)	California.....	6.5	BB
Middle Atlantic Division.....	7.7	(NA)	ROTARY OIL AND GASFIELD DRILLING MACHINERY AND EQUIPMENT (35331)		
New York.....	AA	(NA)	United States.....	348.2	243.5
Pennsylvania.....	CC	(NA)	Northeast Region.....	CC	2.0
North Central Region.....	24.1	(NA)	Middle Atlantic Division.....	CC	2.0
East North Central Division.....	21.8	(NA)	Pennsylvania.....	CC	AA
Ohio.....	9.1	(NA)	North Central Region.....	BB	9.6
Indiana.....	AA	(NA)	East North Central Division.....	AA	CC
Wisconsin.....	CC	(NA)	Illinois.....	AA	CC
West North Central Division.....	2.4	(NA)	West North Central Division.....	BB	-
Minnesota.....	AA	(NA)	Minnesota.....	AA	-
South Region.....	55.4	(NA)	Kansas.....	AA	-
South Atlantic Division.....	FF	(NA)	South Region.....	261.1	177.4
West Virginia.....	FF	(NA)	West South Central Division.....	GG	GG
South Carolina.....	AA	(NA)	Louisiana.....	12.3	BB
East South Central Division.....	BB	(NA)	Oklahoma.....	BB	BB
Alabama.....	BB	(NA)	Texas.....	245.9	GG
West South Central Division.....	3.8	(NA)	West Region.....	75.0	54.5
Texas.....	BB	(NA)	Mountain Division.....	CC	BB
West Region.....	6.4	(NA)	Utah.....	CC	BB
Mountain Division.....	AA	(NA)	Pacific Division.....	GG	GG
Pacific Division.....	BB	(NA)	California.....	68.8	GG
Washington.....	BB	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT (35332)			CONVEYORS AND CONVEYING EQUIPMENT, EXCEPT HOISTS (35351)—Continued		
United States.....	87.0	43.5	North Central Region.....	310.3	249.7
North Central Region.....	CC	AA	East North Central Division.....	254.5	213.2
East North Central Division.....	CC	-	Ohio.....	53.0	55.0
Illinois.....	CC	-	Indiana.....	5.7	1.5
South Region.....	47.9	32.6	Illinois.....	72.8	55.7
West South Central Division.....	FF	FF	Michigan.....	102.7	89.6
Louisiana.....	BB	-	Wisconsin.....	20.2	11.5
Oklahoma.....	CC	EE	West North Central Division.....	55.8	36.4
Texas.....	35.5	17.7	Minnesota.....	16.2	12.8
West Region.....	FF	8.1	Iowa.....	3.5	3.2
Pacific Division.....	FF	8.1	Missouri.....	11.0	10.9
California.....	FF	8.1	South Dakota.....	CC	BB
			Kansas.....	17.6	5.1
OIL AND GAS FIELD PRODUCTION MACHINERY EQUIPMENT, EXCEPT PUMPS (35333)			South Region.....	130.0	85.4
United States.....	376.5	260.5	South Atlantic Division.....	39.1	22.7
Northeast Region.....	22.2	13.9	Maryland.....	CC	BB
Middle Atlantic Division.....	FF	13.9	Virginia.....	EE	BB
New Jersey.....	BB	AA	West Virginia.....	BB	CC
Pennsylvania.....	EE	EE	North Carolina.....	BB	-
North Central Region.....	1.7	CC	South Carolina.....	CC	-
East North Central Division.....	AA	AA	Georgia.....	5.2	4.7
South Region.....	310.7	GG	Florida.....	4.4	3.7
West South Central Division.....	310.7	210.2	East South Central Division.....	52.7	42.0
Louisiana.....	BB	BB	Kentucky.....	33.4	15.8
Oklahoma.....	GG	44.3	Tennessee.....	BB	EE
Texas.....	231.5	163.8	Alabama.....	EE	CC
West Region.....	42.0	FF	Mississippi.....	BB	BB
Pacific Division.....	FF	28.4	West South Central Division.....	38.2	20.8
California.....	FF	28.4	Arkansas.....	CC	AA
			Louisiana.....	AA	AA
OTHER OIL AND GAS FIELD, INCLUDING WATER WELL AND EQUIPMENT (35334)			Texas.....	30.2	16.9
United States.....	113.6	65.4	West Region.....	76.9	33.3
Northeast Region.....	EE	BB	Mountain Division.....	9.3	5.6
Middle Atlantic Division.....	EE	BB	Colorado.....	CC	5.5
Pennsylvania.....	EE	BB	Pacific Division.....	67.6	27.7
North Central Region.....	2.8	CC	Oregon.....	BB	BB
East North Central Division.....	BB	BB	California.....	64.7	24.6
Ohio.....	AA	AA			
Indiana.....	AA	AA	CONVEYOR PARTS, ATTACHMENTS, AND ACCESSORIES (35352)		
South Region.....	90.3	53.4	United States.....	107.1	118.6
East South Central Division.....	CC	CC	Northeast Region.....	29.7	22.1
Mississippi.....	CC	CC	New England Division.....	2.5	AA
West South Central Division.....	GG	FF	Massachusetts.....	BB	AA
Oklahoma.....	16.4	CC	Middle Atlantic Division.....	27.2	FF
Texas.....	62.0	36.9	New York.....	3.4	-
West Region.....	CC	AA	New Jersey.....	9.9	CC
Mountain Division.....	BB	AA	Pennsylvania.....	13.9	12.8
Colorado.....	BB	AA	North Central Region.....	56.9	71.8
CONVEYORS AND CONVEYING EQUIPMENT, EXCEPT HOISTS (35351)			East North Central Division.....	47.9	65.5
United States.....	658.8	469.2	Ohio.....	CC	5.3
Northeast Region.....	141.7	100.8	Indiana.....	BB	EE
New England Division.....	9.1	3.8	Illinois.....	18.9	24.7
Maine.....	AA	-	Michigan.....	11.3	13.7
Massachusetts.....	CC	AA	Wisconsin.....	CC	BB
Connecticut.....	BB	BB	West North Central Division.....	9.0	6.3
Middle Atlantic Division.....	132.6	97.0	Minnesota.....	BB	2.3
New York.....	27.5	17.9	Iowa.....	BB	BB
New Jersey.....	38.5	23.5	Missouri.....	AA	-
Pennsylvania.....	66.6	55.6	South Region.....	17.2	21.6
			South Atlantic Division.....	4.0	12.0
			Virginia.....	AA	BB
			South Carolina.....	AA	CC
			East South Central Division.....	12.6	8.3
			Kentucky.....	BB	-
			Alabama.....	BB	BB
			Mississippi.....	CC	BB
			West Region.....	3.3	3.1
			Pacific Division.....	BB	BB
			Oregon.....	AA	-
			California.....	2.1	1.9

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HOISTS (35361)			INDUSTRIAL TRUCKS AND TRACTORS (35371) <sup>4</sup>		
United States.....	167.4	144.9	United States.....	729.5	(NA)
Northeast Region.....	23.6	37.1	Northeast Region.....	122.8	(NA)
New England Division.....	3.2	4.8	New England Division.....	EE	(NA)
New Hampshire.....	AA	AA	Massachusetts.....	EE	(NA)
Massachusetts.....	AA	-	Middle Atlantic Division.....	GG	(NA)
Middle Atlantic Division.....	20.4	32.3	New York.....	FF	(NA)
New York.....	10.4	EE	Pennsylvania.....	GG	(NA)
New Jersey.....	BB	BB			
Pennsylvania.....	CC	EE	North Central Region.....	453.4	(NA)
North Central Region.....	79.0	65.0	East North Central Division.....	421.1	(NA)
East North Central Division.....	68.9	60.4	Ohio.....	105.4	(NA)
Ohio.....	EE	15.5	Indiana.....	CC	(NA)
Indiana.....	BB	1.4	Illinois.....	140.9	(NA)
Illinois.....	8.1	2.8	Michigan.....	GG	(NA)
Michigan.....	15.0	20.5	Wisconsin.....	9.6	(NA)
Wisconsin.....	22.4	20.2	West North Central Division.....	32.2	(NA)
West North Central Division.....	10.1	4.6	Minnesota.....	15.3	(NA)
Minnesota.....	4.5	BB	Iowa.....	11.4	(NA)
Kansas.....	BB	-	Missouri.....	BB	(NA)
			Kansas.....	BB	(NA)
South Region.....	53.3	25.3	South Region.....	77.0	(NA)
South Atlantic Division.....	25.8	-	South Atlantic Division.....	32.7	(NA)
Maryland.....	AA	-	Virginia.....	EE	(NA)
Virginia.....	EE	-	North Carolina.....	10.5	(NA)
North Carolina.....	CC	EE	Georgia.....	CC	(NA)
East South Central Division.....	2.5	-	Florida.....	CC	(NA)
Alabama.....	AA	EE	East South Central Division.....	24.8	(NA)
West South Central Division.....	25.0	EE	Tennessee.....	BB	(NA)
Arkansas.....	EE	-	Alabama.....	AA	(NA)
Oklahoma.....	CC	-	Mississippi.....	EE	(NA)
Texas.....	4.0	-	West South Central Division.....	19.5	(NA)
			Arkansas.....	EE	(NA)
West Region.....	11.5	17.5	Texas.....	CC	(NA)
Pacific Division.....	EE	EE	West Region.....	76.5	(NA)
California.....	EE	8.3	Mountain Division.....	BB	(NA)
			Colorado.....	AA	(NA)
OVERHEAD TRAVELING CRANES AND MONORAIL SYSTEMS (35362) <sup>2 3</sup>			Nevada.....	BB	(NA)
United States.....	253.5	215.1	Pacific Division.....	GG	(NA)
Northeast Region.....	11.6	13.2	Oregon.....	40.9	(NA)
Middle Atlantic Division.....	EE	EE	California.....	30.8	(NA)
New York.....	CC	CC			
Pennsylvania.....	4.7	6.2	PARTS AND ATTACHMENTS FOR INDUSTRIAL TRUCKS AND TRACTORS (35372) <sup>4</sup>		
North Central Region.....	145.5	170.0	United States.....	171.4	(NA)
East North Central Division.....	137.3	GG	Northeast Region.....	26.0	(NA)
Ohio.....	53.7	67.9	New England Division.....	BB	(NA)
Illinois.....	EE	EE	Massachusetts.....	BB	(NA)
Michigan.....	21.2	27.0	Middle Atlantic Division.....	FF	(NA)
Wisconsin.....	44.4	FF	New York.....	CC	(NA)
West North Central Division.....	8.3	EE	Pennsylvania.....	EE	(NA)
Minnesota.....	AA	-	North Central Region.....	112.6	(NA)
Iowa.....	CC	EE	East North Central Division.....	109.9	(NA)
South Region.....	31.4	6.6	Ohio.....	33.3	(NA)
South Atlantic Division.....	5.4	-	Indiana.....	AA	(NA)
Virginia.....	AA	-	Illinois.....	49.0	(NA)
South Carolina.....	BB	-	Michigan.....	24.3	(NA)
East South Central Division.....	6.3	-	Wisconsin.....	BB	(NA)
Tennessee.....	AA	-	West North Central Division.....	2.8	(NA)
Alabama.....	BB	-	Minnesota.....	AA	(NA)
Mississippi.....	BB	-	Kansas.....	AA	(NA)
West South Central Division.....	19.7	CC	South Region.....	8.6	(NA)
Texas.....	EE	CC	South Atlantic Division.....	CC	(NA)
West Region.....	64.8	25.4	Virginia.....	BB	(NA)
Mountain Division.....	CC	-	Florida.....	BB	(NA)
Utah.....	CC	-	East South Central Division.....	BB	(NA)
Pacific Division.....	GG	25.4	Alabama.....	BB	(NA)
Washington.....	EE	CC	West Region.....	24.1	(NA)
California.....	39.7	EE	Pacific Division.....	FF	(NA)
			Washington.....	AA	(NA)
			Oregon.....	15.1	(NA)
			California.....	CC	(NA)

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

- Represents zero. (NA) Not available.

<sup>1</sup>No 1967 geographic data were published for this product class.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into this class of products represent approximately 10 percent of the total 1967 shipments at the U.S. level.

<sup>3</sup>See table 6A-1, footnote 16.

<sup>4</sup>See table 6A-1, footnote 18.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3531	Construction machinery.....	5,653.6	4,590.6	4,522.6	4,434.9	4,095.2	3,766.6	2,624.2	1,996.3
35311	Contractors' off-highway wheel tractors, except parts and attachments.....	251.5	195.9	205.0	203.8	93.8	132.3	102.7	90.0
35312	Tracklaying-type tractors, except parts and attachments....	564.0	474.2	478.9	484.1	469.0	389.9	317.4	287.3
35313	Parts and attachments for tracklaying type tractors. contractors' off-highway wheel tractors and tractor shovel loaders.....	865.7	616.6	628.1	576.4	614.6	604.2	302.7	<sup>2</sup> 272.1
35314	Power cranes, draglines, shovels, and parts.....	914.2	853.6	788.6	747.1	705.4	656.5	464.8	361.1
35316	Mixers, pavers, and related equipment, excluding parts....	252.0	188.8	194.2	195.0	168.0	162.3	132.0	101.9
35317	Tractor, shovel loaders, excluding parts and attachments...	810.7	630.6	580.9	616.3	513.2	411.6	388.0	<sup>3</sup> 157.9
35318	Scrapers, graders, rollers, and off-highway trucks, wagons, etc.....	964.8	815.4	782.1	756.1	752.1	711.4	480.0	326.0
35319	Other construction machinery and equipment, including parts	913.0	772.1	815.4	803.2	724.4	613.9	403.5	368.1
35310	Construction machinery, n.s.k.....	117.7	(43.4)	(49.4)	52.9	54.7	84.5	33.2	32.0
3532	Mining machinery.....	729.8	841.1	715.4	574.4	524.5	521.5	336.2	275.3
35321	Underground mining and mineral beneficiation machinery and equipment.....	168.5	216.3	172.2	136.6	124.9	101.4	73.6	64.7
35322	Crushing, pulverizing, and screening machinery.....	101.3	142.8	124.1	81.9	80.3	78.5	58.0	67.8
35323	All other mining machinery and equipment.....	93.5	165.4	109.5	54.2	50.8	50.1	39.3	
35324	Parts and attachments for mining machinery and equipment...	331.1	300.5	292.4	271.0	239.7	257.2	158.0	142.8
35320	Mining machinery, n.s.k.....	35.4	16.1	(17.2)	30.7	(28.8)	34.3	7.3	
3533	Oilfield machinery.....	980.0	962.2	933.5	813.0	733.4	660.7	572.7	496.1
35331	Rotary oilfield and gasfield drilling machinery and equipment.....	348.2	376.5	372.6	322.8	(278.0)	243.5	217.2	222.0
35332	Other oilfield and gasfield drilling machinery and equipment.....	87.0	59.0	52.8	60.6	46.5	43.5	38.8	43.4
35333	Oilfield and gasfield production machinery and equipment, except pumps.....	376.5	360.6	355.1	308.4	286.2	260.5	261.5	175.5
35334	Other oilfield and gasfield machinery and tools including water-well and equipment.....	113.6	136.1	116.6	79.7	81.2	65.4	43.3	40.7
35330	Oilfield machinery, n.s.k.....	54.7	30.0	(36.4)	41.5	41.5	47.9	11.9	14.6
35340	Elevators and moving stairways.....	412.2	393.6	337.1	317.1	313.6	295.9	248.2	165.3
3535	Conveyors and conveying equipment.....	825.6	818.5	813.6	744.2	670.5	655.4	414.9	333.9
35351	Conveyors and conveying equipment, except hoists and farm elevators.....	658.8	629.9	625.5	551.8	496.5	478.9	306.2	248.0
35352	Conveyor parts, attachments, and accessories.....	107.1	156.9	150.5	136.2	119.2	118.6	88.0	72.0
35350	Conveyors and conveying equipment, n.s.k.....	59.7	(31.7)	(37.6)	56.2	54.8	57.9	20.7	13.9
3536	Hoists, cranes, and monorails.....	446.0	443.2	475.7	459.7	428.2	385.3	224.2	165.5
35361	Hoists.....	167.4	229.5	239.8	195.4	175.1	144.9	105.0	59.4
35362	Overhead traveling cranes and monorail systems.....	<sup>4</sup> 253.5	204.3	221.7	233.5	227.2	215.1	115.7	106.1
35360	Hoists, cranes, and monorails, n.s.k.....	25.1	(9.4)	(14.2)	30.8	25.9	25.3	3.5	(NA)
3537	Industrial trucks and tractors.....	<sup>6</sup> 1,004.8							
35371	Industrial trucks and tractors.....	729.5	865.0	890.3	1,010.4	834.9	780.7	458.7	276.7
35372	Parts and attachments for industrial trucks and tractors...	171.4							
35370	Industrial trucks and tractors, n.s.k.....	103.9							

(NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Parts (for replacement and repair) and attachments for wheel-type tractor shovel loaders and for tracklaying-type tractor shovel loaders are included in product 35319 for 1958.

<sup>3</sup>Source: Current Industrial Reports series M35D, "Construction Machinery," and M35S, "Tractors (Except Garden Tractors)." These data exclude the value of parts and attachments for wheel-type shovel loaders and for tracklaying-type shovel loaders.

<sup>4</sup>The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 10 percent of the total 1967 shipments at the U.S. level.

<sup>5</sup>See table 6A-1, footnote 16.

<sup>6</sup>See table 6A-1, footnotes 17 and 18.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3531.--CONSTRUCTION MACHINERY					
	Materials, parts, containers, and supplies, total.....		(X)	2,813.2	(X)	1,929.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bar and bar shapes.....	1,000 s. tons.	301.9	82.2	412.4	70.5
331012	Sheet and strip.....	..do.....	178.1	37.6	141.8	22.3
331013	Plates.....	..do.....	853.5	170.7	591.0	93.4
331015	Structural shapes.....	..do.....	157.5	33.7	108.9	17.6
331017	Wire and wire products.....	..do.....	6.4	3.1	8.6	3.6
331019	All other carbon steel mill shapes and forms.....	..do.....	204.1	49.5	194.8	123.4
	Alloy steel except stainless:					
331021	Bars and bar shapes.....	..do.....	55.8	18.5	65.7	15.9
331029	All other alloy steel mill shapes and forms.....	..do.....	120.2	36.6	68.0	18.6
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.3	.6	.7	1.0
331050	All other stainless steel mill shapes and forms.....	..do.....	.5	1.0		
	Copper and copper-base alloy:					
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	2.7	2.4	.9	.9
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Mil. lb.....	(NA)	.8	(NA)	.8
335143	Plate, sheet, and strip (including military cups and discs)...	..do.....	.4	.3	(NA)	.5
335152	Pipe and tube.....	..do.....	9.9	3.5	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	1.9	1.0	1.6	.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	1.5	1.1	1.0	.7
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	.3	.4	1.4	1.5
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	16.1	1.3	43.5	2.5
999811	Iron and steel scrap (purchased scrap only).....	..do.....	142.7	6.2	96.9	3.1
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (grey and malleable).....	..do.....	240.7	128.4	246.9	103.4
332045	Steel.....	..do.....	182.2	137.2	177.6	124.1
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	13.1	13.3	12.2
336200	Copper and copper-base alloy.....	..do.....	2.7	3.3	3.6	3.4
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	281.7	156.9	313.6	145.9
	Engines: <sup>2</sup>					
351920	Diesel and semidiesel.....	1,000 units...	69.2	209.9	34.9	80.9
351901	Gasoline and other carburetor.....	..do.....	66.4	25.1	28.5	15.9
362120	Integral horsepower motors and generators (1 hp. and over ) <sup>2</sup> .....	..do.....	66.4	29.2	(NA)	22.3
	Bearings:					
356218	Ball.....	..do.....	(X)	19.9	(X)	18.6
356201	Roller.....	..do.....	(X)	31.5	(X)	36.5
301131	Pneumatic tires.....	1,000 units...	458.2	89.4	465.9	63.3
356830	Mechanical power transmission equipment, (except motor vehicle), including gears, clutches, etc.....	..do.....	(X)	169.6	(X)	60.7
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	1,154.8	(X)	3774.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	..do.....	(X)	194.4	(X)	191.4
	INDUSTRY 3532.--MINING MACHINERY					
	Materials, parts, containers and supplies, total.....		(X)	319.3	(X)	259.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bar and bar shapes.....	1,000 s. tons.	54.1	13.0	54.3	10.9
331012	Sheet and strip.....	..do.....	(NA)	3.3	12.0	1.7
331013	Plates.....	..do.....	74.4	16.0	84.9	14.0
331015	Structural shapes.....	..do.....	15.4	3.8	25.2	4.0
331017	Wire and wire products.....	..do.....	.5	.5	56.8	52.3
331019	All other carbon steel mill shapes and forms.....	..do.....	13.1	4.6		
	Alloy steel except stainless:					
331021	Bars and bar shapes.....	..do.....	14.9	6.1	33.7	11.0
331029	All other alloy steel mill shapes and forms.....	..do.....	3.9	2.3		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.4	.6	1.0	1.4
331050	All other stainless steel mill shapes and forms.....	..do.....	.1	.2		

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3532.--MINING MACHINERY--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms (except castings):					
	Copper and copper-base alloy:					
335729	Bare wire (for electrical conduction).....	Million lb....	-	-	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	2.7	1.6	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.3	.2	1.1	.6
335143	Plate, sheet, and strip (including military cups and discs)...	...do.....				
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	.1	.1	.3	.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....				
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	5.7	.4	4.1	.3
999811	Iron and steel scrap (purchased scrap only).....	...do.....	13.2	.6	14.2	.6
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	...do.....	(NA)	9.8	13.7	7.4
332045	Steel.....	...do.....	22.3	21.4	42.3	30.5
336100	Aluminum and aluminum-base alloy.....	Million lb....	.3	.4	.2	.3
336200	Copper and copper-base alloy.....	...do.....	.7	1.0	1.2	1.2
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	13.8	11.0	12.3	9.0
	Engines:					
351920	Diesel and semidiesel.....	1,000 units...	1.0	4.8	.3	.6
351901	Gasoline and other carburetor.....	...do.....	.8	.5	(D)	(D)
362120	Integral horsepower motors and generators (1 hp. and over) <sup>2</sup> .....	...do.....	11.9	12.4	8.5	5.9
	Bearings:					
356218	Ball.....	.....	(X)	3.3	(X)	1.4
356201	Roller.....	.....	(X)	5.5	(X)	3.4
301131	Pneumatic tires.....	1,000 units...	9.6	1.5	(D)	(D)
356830	Mechanical power transmission equipment (except motor vehicle), including gears, clutches, etc.....	.....	(X)	11.7	(X)	10.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	160.3	(X)	<sup>3</sup> 92.6
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	.....	(X)	21.8	(X)	50.4
	INDUSTRY 3533.--OILFIELD MACHINERY					
	Materials, parts, containers, and supplies, total.....	.....	(X)	397.9	(Z)	261.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	46.1	11.4	65.8	12.2
331013	Plates.....	...do.....	40.9	9.1	52.2	8.4
331015	Structural shapes.....	...do.....	25.4	5.3	26.5	4.4
331019	All other carbon steel mill shapes and forms.....	...do.....	26.6	8.3	22.7	7.0
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	118.8	38.3	96.4	25.7
331029	All other alloy steel mill shapes and forms.....	...do.....	31.7	14.3	20.5	6.4
	Stainless steel:					
331033	Sheet and strip.....	...do.....	.2	.4	2.9	4.0
331050	All other stainless steel mill shapes and forms.....	...do.....	2.5	5.1		
335105	Copper and copper-base alloy.....	Million lb....	1.6	2.0	1.6	1.3
335001	Aluminum and aluminum-base alloy.....	...do.....	.9	1.4	1.3	1.1
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	9.0	6.5	13.9	5.5
332045	Steel.....	...do.....	21.4	18.5	36.3	19.4
336200	Copper and copper-base alloy.....	Million lb....	.5	1.0	1.2	1.4
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	16.7	14.8	23.5	12.0
351920	Engines, diesel and semidiesel <sup>2</sup> .....	1,000 units...	1.2	9.1	.8	4.9
	Bearings:					
356218	Ball.....	.....	(X)	6.9	(X)	2.6
356201	Roller.....	.....	(X)	2.7	(X)	2.5
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	142.0	(X)	99.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	.....	(X)	100.8	(X)	44.0

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3534.--ELEVATORS AND MOVING STAIRWAYS					
	Materials, parts, containers, and supplies, total.....		(X)	166.9	(X)	122.3
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	21.6	4.7	13.8	2.5
331012	Sheet and strip.....	..do.....	54.3	10.8	14.2	2.5
331013	Plates.....	..do.....	15.0	3.3	8.9	1.5
331015	Structural shapes.....	..do.....	43.8	10.0	18.1	3.2
331017	Wire and wire products.....	..do.....	3.1	1.4	15.6	3.2
331019	All other carbon steel mill shapes and forms.....	..do.....	9.2	2.5		
331020	Alloy steel (except stainless).....	..do.....	.9	.3	.1	(Z)
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.5	1.5	1.3	1.6
331050	All other stainless steel mill shapes and forms.....	..do.....	.1	.1		
335790	Copper and copper-base alloy: Insulated wire and cable.....	Mil. lb. (cop- per content).	5.6	3.5	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.9	.8	.3	.3
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	.7	.7		
335152	Pipe and tube.....	..do.....	(NA)	.3	(NA)	.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.5	.3	1.4	.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	1.1	.4		
335008	All other aluminum mill shapes and forms (wire, rolled, rod and bar, powder, welded tubing, etc.).....	..do.....	.1	(Z)		
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	11.5	6.0	11.4	4.6
332045	Steel.....	..do.....	2.5	2.1	3.8	3.5
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.7	2.2	(NA)	(NA)
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	2.1	1.9	(D)	(D)
351901	Gasoline and other carburetor engines <sup>2</sup> .....	1,000 units...	.1	(Z)	(D)	(D)
	Electric motors and generators: <sup>2</sup>					
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	..do.....	42.2	2.0	12.3	.7
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	24.2	9.7	7.7	3.6
	Bearings:					
356218	Ball.....	..do.....	(X)	1.5	(X)	1.0
356201	Roller.....	..do.....	(X)	.6	(X)	.4
970099	All other materials, and components, parts, containers, and supplies consumed.....	..do.....	(X)	73.7	(X)	<sup>3</sup> 53.6
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	..do.....	(X)	26.6	(X)	38.5
	INDUSTRY 3535.--CONVEYORS AND CONVEYING EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	309.3	(X)	272.0
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	75.0	16.8	54.0	9.6
331012	Sheet and strip.....	..do.....	83.2	17.2	82.7	13.5
331013	Plates.....	..do.....	73.0	15.0	50.4	8.0
331015	Structural shapes.....	..do.....	78.2	15.8	69.2	10.9
331017	Wire and wire products.....	..do.....	6.5	2.1	3.1	1.9
331019	All other carbon steel mill shapes and forms.....	..do.....	36.3	11.1	<sup>5</sup> 17.4	<sup>5</sup> 4.7
331020	Alloy steel (except stainless).....	..do.....	8.6	12.4	2.6	1.2
	Stainless steel:					
331033	Sheet and strip.....	..do.....			2.8	3.9
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Copper and copper-base alloy: Insulated wire and cable.....	Mil. lb. (cop- per content).	.6	.7	.4	.4
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.1	.2	(NA)	.5
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	.2	.3	.3	.3
335152	Pipe and tube.....	..do.....	7.6	.8	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	2.3	1.2	2.9	1.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	2.3	1.1	2.2	1.1
335008	All other aluminum mill shapes and forms (wire, rolled rod, and bar, powder, welded tubing, etc.).....	..do.....	.8	.4	(NA)	.2

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967			
			Quantity	Delivered cost	Quantity	Delivered cost		
				(million dollars)		(million dollars)		
	INDUSTRY 3535.--CONVEYORS AND CONVEYING EQUIPMENT--Con.							
	Materials, parts, containers, and supplies--Continued							
	Castings (rough and semifinished): <sup>2</sup>							
332011	Iron (gray and malleable).....	1,000 s. tons.	9.5	6.1	11.2	4.6		
332045	Steel.....	...do.....	1.7	2.0	(NA)	2.4		
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.7	1.6	(NA)	(NA)		
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	6.3	4.3	(D)	(D)		
351901	Gasoline and other carburetor engines <sup>2</sup> .....	1,000 units...	(NA)	.5	(NA)	.2		
	Electric motors and generators: <sup>2</sup>							
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	...do.....	55.9	4.5	42.4	3.1		
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	33.8	4.7	25.1	4.1		
	Bearings:							
356218	Ball.....	.....	(X)	8.4	(X)	4.6		
356201	Roller.....	.....	(X)	4.0	(X)	3.8		
369101	Storage batteries.....	1,000 units...	}	(X)	121.6	{	(D)	(D)
970099	All other material and components, parts, containers, and supplies consumed.....	.....					(X)	<sup>3</sup> 122.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	.....					(X)	68.3
	INDUSTRY 3536.--HOISTS, CRANES, AND MONORAILS							
	Materials, parts, containers, and supplies, total.....	.....	(X)	224.2	(X)	178.7		
	Mill shapes and forms, except castings:							
	Carbon steel:							
331011	Bar and bar shapes.....	1,000 s. tons.	(NA)	6.5	22.6	4.4		
331012	Sheet and strip.....	...do.....	20.8	4.7	13.2	2.1		
331013	Plates.....	...do.....	111.3	22.4	79.1	12.4		
331015	Structural shapes.....	...do.....	43.7	9.6	32.6	5.6		
331017	Wire and wire products.....	...do.....	1.9	1.4	.8	.5		
331019	All other carbon steel mill shapes and forms.....	...do.....	16.9	5.0	9.6	2.5		
	Alloy steel, except stainless:							
331021	Bars and bar shapes.....	...do.....	4.5	1.7	}	13.8	3.9	
331029	All other alloy steel mill shapes and forms.....	...do.....	8.2	2.6				
	Stainless steel:							
331033	Sheet and strip.....	...do.....	(NA)	.9	}			
331050	All other stainless steel mill shapes and forms.....	...do.....	.2	.3				
	Copper and copper-base alloy:							
335790	Insulated wire and cable.....	Million lb....	1.7	2.4	2.4	2.3		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	}	.2	}	(NA)	1.8	
335143	Plate, sheet, and strip, including military cups and discs....	...do.....						
335152	Pipe and tube.....	...do.....						
	Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	...do.....	(NA)	.1	}	.7	.4	
335405	Extruded shapes, including estruded rod, bar, pipe, tube, etc.	...do.....						
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	.6	.3				
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	-	-	(X)	(Z)		
	Castings (rough and semifinished): <sup>2</sup>							
332011	Iron (gray and malleable).....	...do.....	(NA)	6.4	11.8	6.4		
332045	Steel.....	...do.....	(NA)	7.8	7.6	5.8		
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.8	2.6	1.9	1.6		
336200	Copper and copper-base alloy.....	...do.....	.4	.6	1.3	1.0		
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	4.7	3.9	4.9	2.9		
	Engines: <sup>2</sup>							
351920	Diesel and semidiesel.....	1,000 units...	.1	.6	(D)	(D)		
351901	Gasoline and other carburetor.....	...do.....	1.2	.9	1.4	.3		
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>2</sup> .....	...do.....	(NA)	8.4	33.5	6.9		
	Bearings:							
356218	Ball.....	.....	}	(X)	{	(X)	1.8	
356201	Roller.....	.....				(X)	3.1	
301131	Pneumatic tires.....	1,000 units...	45.7	.7	(D)	(D)		
356830	Mechanical power transmission equipment (except motor vehicle), including gears, clutches, etc.....	.....	(X)	7.6	(X)	3.7		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	88.0	(X)	<sup>3</sup> 61.2		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	.....	(X)	33.8	(X)	48.1		

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967			
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)		
	INDUSTRY 3537.--INDUSTRIAL TRUCKS AND TRACTORS							
	Materials, parts, containers, and supplies, total.....		(X)	469.9	(X)	333.4		
	Mill shapes and forms (except castings):							
	Carbon steel:							
331011	Bars and bar shapes.....	1,000 s. tons.	97.6	18.5	64.6	11.1		
331012	Sheet and strip.....	..do.....	65.5	13.6	57.8	9.0		
331013	Plates.....	..do.....	119.4	21.9	66.7	11.5		
331015	Structural shapes.....	..do.....	35.2	9.1	25.4	5.0		
331017	Wire and wire products.....	..do.....	(NA)	.8	15.6	3.4		
331019	All other carbon steel mill shapes and forms.....	..do.....	18.1	5.1				
331020	Alloy steel (except stainless).....	..do.....	4.5	1.6	11.8	4.1		
	Stainless steel:							
331033	Sheet and strip.....	..do.....	(NA)	.4				
331050	All other stainless steel mill shapes and forms.....	..do.....	(NA)	.4				
	Copper and copper-base alloy:							
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	1.1	.7	.6		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(NA)	.5	(NA)	.2		
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	.1	.1	(NA)	.1		
335152	Pipe and tube.....	..do.....	(NA)	.1	(D)	(D)		
	Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	..do.....	8.3	4.7	4.6	2.7		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	(NA)	.9				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....						
	Castings (rough and semifinished): <sup>2</sup>							
332011	Iron (gray and malleable).....	1,000 s. tons.	(NA)	18.7	51.2	14.4		
332045	Steel.....	..do.....	10.5	8.3	9.1	6.7		
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.1	1.3	(NA)	(NA)		
346200	Iron and steel forgings <sup>2</sup> .....	1,000 tons....	7.5	6.0	4.6	4.1		
351901	Gasoline and other carburetor engines <sup>2</sup> .....	1,000 units...	39.9	20.1	43.4	17.3		
	Electric motors and generators: <sup>2</sup>							
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	..do.....	16.7	1.1	(NA)	1.7		
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	59.8	9.5	(NA)	2.4		
	Bearings:							
356218	Ball.....	.....	(X)	3.4	(X)	1.6		
356201	Roller.....	.....	(X)	5.6	(X)	1.6		
369101	Storage batteries.....	1,000 units...	(NA)	6.1	67.1	4.2		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	264.1	(X)	3180.6		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	.....	(X)	46.9	(X)	51.1		

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>These figures are understated by \$10 million or less because of apparent undercoverage of carbon steel pipe and tube.

<sup>2</sup>Excludes quantities produced and consumed in the same establishment.

<sup>3</sup>Includes cost for materials indicated by the symbol (D).

<sup>4</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

<sup>5</sup>These figures are understated by \$5 million or less because of apparent undercoverage of carbon steel pipe and tube.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3531.--CONSTRUCTION MACHINERY						
	Purchased fuels and electric energy.....		(X)	38.2	(X)	33.0
	Purchased fuels, total.....		(X)	15.3	(X)	14.2
121005	Coal.....	1,000 s. tons.....	341.5	2.9	345.6	2.6
331212	Coke.....	..do.....	(S)	.5	14.8	.5
	Fuel oil, total.....	1,000 bbl (42 gal)	263.5	1.3	290.8	1.2
291141	Distillate.....	..do.....	211.1	1.1	208.9	.9
291151	Residual.....	..do.....	52.4	.2	81.9	.3
131300	Natural gas.....	Billion ft <sup>3</sup> .....	15.8	8.4	10.8	6.1
960011	Other fuels.....		(X)	.7	(X)	.4
975000	Fuels, n.s.k.....		(X)	1.5	(X)	3.4
960012	Purchased electric energy.....	Million kWh.....	1,958.6	22.9	1,684.4	18.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	80.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	10.9	-	8.3	-
INDUSTRY 3532.--MINING MACHINERY						
	Purchased fuels and electric energy.....		(X)	5.8	(X)	(NA)
	Purchased fuels, total.....		(X)	2.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	14.1	.1	(NA)	(NA)
331212	Coke.....	..do.....	(S)	.2	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	59.2	.3	(NA)	(NA)
291141	Distillate.....	..do.....	36.7	.2	(NA)	(NA)
291151	Residual.....	..do.....	22.5	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.6	1.3	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	272.5	3.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.5	-	(NA)	(NA)
INDUSTRY 3533.--OILFIELD MACHINERY						
	Purchased fuels and electric energy.....		(X)	8.4	(X)	7.7
	Purchased fuels, total.....		(X)	2.5	(X)	2.7
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	8.6	(Z)	(NA)	(NA)
291141	Distillate.....	..do.....	8.6	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	-	-	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	5.0	1.7	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	560.6	5.9	471.5	5.0
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.4	-	1.9	-
INDUSTRY 3534.--ELEVATORS AND MOVING STAIRWAYS						
	Purchased fuels and electric energy.....		(X)	3.1	(X)	(NA)
	Purchased fuels, total.....		(X)	1.2	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	10.9	.2	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	83.5	.4	(NA)	(NA)
291141	Distillate.....	..do.....	22.8	.1	(NA)	(NA)
291151	Residual.....	..do.....	60.7	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.6	.4	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	114.9	1.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	(NA)
	Total energy used for heat and power.....	Bil. kWh equiv....	.6	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3535.--CONVEYORS AND CONVEYING EQUIPMENT					
	Purchased fuels and electric energy.....		(X)	5.4	(X)	(NA)
	Purchased fuels, total.....		(X)	1.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	5.0	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	46.1	.2	(NA)	(NA)
291141	Distillate.....	...do.....	39.9	.2	(NA)	(NA)
291151	Residual.....	...do.....	6.3	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	2.1	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	213.1	3.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.2	-	(NA)	(NA)
	INDUSTRY 3536.--HOISTS, CRANES, AND MONORAILS					
	Purchased fuels and electric energy.....		(X)	3.5	(X)	(NA)
	Purchased fuels, total.....		(X)	1.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	29.1	.1	(NA)	(NA)
291141	Distillate.....	...do.....	1.6	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	27.6	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	1.7	.9	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	147.2	2.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.8	-	(NA)	(NA)
	INDUSTRY 3537.--INDUSTRIAL TRUCKS AND TRACTORS					
	Purchased fuels and electric energy.....		(X)	6.5	(X)	(NA)
	Purchased fuels, total.....		(X)	2.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	.6	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	109.2	.5	(NA)	(NA)
291141	Distillate.....	...do.....	60.8	.3	(NA)	(NA)
291151	Residual.....	...do.....	48.4	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	2.3	1.2	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	326.8	4.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.





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# Metalworking Machinery and Equipment

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# EXPLANATORY TEXT

## METALWORKING MACHINERY AND EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3541—Machine Tools, Metal-Cutting Types**
- 3542—Machine Tools, Metal-Forming Types**
- 3544—Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds\***
- 3545—Machine Tool Accessories and Measuring Devices\***
- 3546—Power-Driven Handtools**
- 3547—Rolling Mill Machinery and Equipment\***
- 3549—Metalworking Machinery, N.E.C.**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3541.—MACHINE TOOLS, METAL-CUTTING TYPES

This industry comprises establishments primarily engaged in manufacturing machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools; and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. For a detailed list of products of industry 3541, refer to table 6A, product codes 35411 00 to 35419 41.

\* Note that the "short title" for this industry is used throughout the report.

Establishments primarily engaged in manufacturing electric welding equipment are classified in industry 3623 (Welding Apparatus, Electric); portable power-driven handtools, in industry 3546; and gas welding and cutting equipment and automotive maintenance equipment are classified in industry 3549.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Machine Tools, Metal-Cutting Types, Industry in 1972 totaled \$1,418 million. This included shipments of machine tools, metal-cutting types, (primary products) valued at \$1,136 million, shipments of other products (secondary products) valued at \$189 million, and miscellaneous receipts (mainly resales and contract work) of \$94 million.

Shipments of machine tools, metal-cutting types, (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 86 percent.

Shipments of machine tools, metal-cutting types, (primary products) from establishments classified in industry 3541 in 1972 represented 90 percent (coverage ratio) of these products valued at \$1,258 million shipped by all industries. In 1967, the coverage ratio was also 90 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3541, these establishments accounted for 3 percent of value of shipments.

## INDUSTRY 3542.—MACHINE TOOLS, METAL-FORMING TYPES

This industry comprises establishments primarily engaged in manufacturing machines, not supported in the hands of an operator while in use, for pressing, hammering, extruding, shearing, diecasting, or otherwise forming metal into shape. This industry also includes establishments primarily engaged in



rebuilding such machine tools and manufacturing repair parts for them. For a detailed list of products of industry 3542, refer to table 6A, product codes 35421 10 to 35424 75.

Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623 (Welding Apparatus, Electric); portable power-driven hand-tools in industry 3546; rolling-mill machinery and equipment in industry 3547; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Machine Tools, Metal-Forming Types, Industry in 1972 totaled \$694 million. This included shipments of machine tools, metal forming types, (primary products) valued at \$581 million, shipments of other products (secondary products) valued at \$73 million, and miscellaneous receipts (mainly resales and receipts for repair work) of \$40 million.

Shipments of machine tools, metal-forming types, (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of machine tools, metal-forming types, (primary products) from establishments classified in industry 3542 in 1972 represented 87 percent (coverage ratio) of these products valued at \$670 million shipped by all industries. In 1967, the coverage ratio was 84 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3542, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3544.—SPECIAL DIES, TOOLS, JIGS, AND FIXTURES (Short Title)**

This industry comprises establishments, commonly known as contract tool and die shops, primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, diecasting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings such as dies;

punches; die sets and components, and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing molds for diecasting and foundry casting, metal molds for plasterworking, rubber working, plastic working, glassworking, and similar machinery are also included. For a detailed list of products of industry 3544, refer to table 6A, product codes 35441 13 to 35442 63.

Establishments primarily engaged in manufacturing molds for heavy steel ingots are classified in industry 3321 (Gray Iron Foundries).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Special Dies, Tools, Jigs, and Fixtures, Industry in 1972 totaled \$2,427 million. This included shipments of special dies, tools, jigs, and fixtures (primary products) valued at \$2,106 million, shipments of other products (secondary products) valued at \$129 million, and miscellaneous receipts (mainly contract work and resales) of \$192 million.

Shipments of special dies, tools, jigs, and fixtures (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent.

Shipments of special dies, tools, jigs, and fixtures (primary products) from establishments classified in industry 3544 in 1972 represented 78 percent (coverage ratio) of these products valued at \$2,714 million shipped by all industries. In 1967, the coverage ratio was 74 percent. Other industries shipping special dies, tools, jigs, and fixtures consisted mainly of industry 3465, Automotive Stampings, (\$187 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3544, these establishments accounted for 18 percent of value of shipments.

#### **INDUSTRY 3545.—MACHINE TOOL ACCESSORIES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing cutting tools, machinists' precision measuring

tools, and attachments and accessories for machine tools and for other metalworking machinery, not elsewhere classified. For a detailed list of products of industry 3545, refer to table 6A, product codes 35451 13 to 35453 51.

Establishments primarily engaged in manufacturing handtools, except power-driven types, are classified in SIC group 342 (Cutlery, Handtools, and Hardware).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Machine Tool Accessories Industry in 1972 totaled \$1,249 million. This included shipments of machine tool accessories (primary products) valued at \$1,008 million, shipments of other products (secondary products) valued at \$165 million, and miscellaneous receipts (mainly resales) of \$76 million.

Shipments of machine tool accessories (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of machine tool accessories (primary products) from establishments classified in industry 3545 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,151 million shipped by all industries. In 1967, the coverage ratio was 85 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3545, these establishments accounted for 7 percent of value of shipments.

#### INDUSTRY 3546.—POWER-DRIVEN HANDTOOLS

This industry comprises establishments primarily engaged in manufacturing power-driven handtools such as drills and drilling tools, pneumatic and snagging grinders, and electric hammers. For a detailed list of products of industry 3546, refer to table 6A, product codes 35461 01 to 35462 61.

Establishments primarily engaged in manufacturing automotive maintenance equipment are classified in industry 3549; those primarily manufacturing machine tools for metal cutting and metal forming (including home workshop tools) which are not supported in the hands of an operator are classified in

industries 3541 and 3542; and those primarily manufacturing power-driven heavy construction or mining handtools in SIC group 353 (Construction and Related Machinery).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

In 1972, industry 3546 is presented as a separate industry for the first time; it was part of industry 3548 in previous years. Industry 3548 as defined by the classification system followed in the 1967 census was split, as a result of changes incorporated in the 1972 edition of the SIC manual, into three separate industries: 3546, Power-Driven Handtools; 3547, Rolling Mill Machinery; and 3549, Metalworking Machinery, N.E.C.

Value of shipments and other receipts of the Power-Driven Handtools Industry in 1972 totaled \$730 million. This included shipments of power-driven handtools (primary products) valued at \$571 million, shipments of other products (secondary products) valued at \$127 million, and miscellaneous receipts (mainly resales) of \$32 million.

Shipments of power-driven handtools (primary products) in 1972 represented 82 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of power-driven handtools (primary products) from establishments classified in industry 3546 in 1972 represented 92 percent (coverage ratio) of these products valued at \$623 million shipped by all industries. Other industries shipping power-driven handtools consisted mainly of industry 3315, Steel Wire and Related Products, (\$25 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3546, these establishments accounted for less than 1 percent of value of shipments.

#### INDUSTRY 3547.—ROLLING MILL MACHINERY (Short Title)

This industry comprises establishments primarily engaged in manufacturing rolling mill machinery and processing equipment for metal production, such as cold forming mills, structural mills, and finishing equipment. For a detailed list of products of industry 3547, refer to table 6A, product codes 35471 11 to 35473 53.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding



structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

In 1972, this industry is presented as a separate industry for the first time; in prior years it was part of industry 3548. Industry 3548 as defined by the classification system followed in the 1967 census was split, as a result of changes incorporated in the 1972 edition of the SIC manual, into three separate industries: 3546, Power-Driven Handtools; 3547, Rolling Mill Machinery; and 3549, Metalworking Machinery, N.E.C.

Value of shipments and other receipts of the Rolling Mill Machinery Industry in 1972 totaled \$328 million. This included shipments of rolling mill machinery (primary products) valued at \$212 million, shipments of other products (secondary products) valued at \$74 million, and miscellaneous receipts (mainly contract work and resales) of \$41 million.

Shipments of rolling mill machinery (primary products) in 1972 represented 74 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of rolling mill machinery (primary products) from establishments classified in industry 3547 in 1972 represented 86 percent (coverage ratio) of these products valued at \$248 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3547, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3549.—METALWORKING MACHINERY, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing metalworking machinery, not elsewhere classified, such as gas cutting and welding equipment, wire fabricating machinery and equipment, except wiredrawing dies, and automotive maintenance machinery and equipment. For a detailed list of products of industry 3549, refer to table 6A, product codes 35493 11 to 35495 98.

Establishments primarily engaged in manufacturing metal-cutting machine tools are classified in industry 3541; metal-forming machine tools in industry 3542; power-driven handtools in industry 3546; and rolling mill machinery in industry 3547.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

In 1972, this industry is presented as a separate industry for the first time; in prior years it was part of industry 3548. Industry 3548 as defined by the classification system followed in the 1967 census was split, as a result of changes incorporated in the 1972 edition of the SIC manual, into three separate industries: 3546, Power-Driven Handtools; 3547, Rolling Mill Machinery; and 3549, Metalworking Machinery, N.E.C.

Value of shipments and other receipts of the Metalworking Machinery, N.E.C., Industry in 1972 totaled \$428 million. This included shipments of metalworking machinery, n.e.c., (primary products) valued at \$342 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts (mainly resales and contract work) of \$38 million.

Shipments of metalworking machinery, n.e.c., (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of metalworking machinery, n.e.c., (primary products) from establishments classified in industry 3549 in 1972 represented 83 percent (coverage ratio) of these products valued at \$411 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3549, these establishments accounted for 11 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3541.--MACHINE TOOLS, METAL-CUTTING TYPES															
1972 Census.....	894	275	52.5	573.8	33.4	68.2	325.9	901.7	536.3	1,418.1	35.2	(NA)	482.0	86	90
1971 ASM.....	(NA)	(NA)	54.0	533.1	33.2	64.5	286.2	819.8	473.2	1,351.1	28.7	873.6	492.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	71.3	684.7	45.8	93.2	395.3	1,112.1	664.0	1,821.7	49.3	884.5	562.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	82.6	791.6	55.3	116.0	477.5	1,441.5	744.5	2,108.3	75.5	889.3	618.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	84.3	755.2	57.5	120.2	462.3	1,377.1	718.9	2,099.1	62.3	844.9	541.0	(NA)	(NA)
1967 Census.....	903	338	87.2	759.9	60.5	131.8	476.5	1,391.3	766.9	2,127.2	78.7	799.7	535.3	86	90
1966 ASM.....	(NA)	(NA)	79.8	673.4	55.3	123.8	427.5	1,234.2	669.4	1,826.1	74.9	(NA)	489.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	70.8	565.0	48.7	108.1	353.7	993.6	559.2	1,524.4	53.7	(NA)	394.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	65.1	497.7	44.5	97.3	306.8	836.2	479.5	1,286.0	41.7	557.9	343.6	(NA)	(NA)
1963 Census.....	801	269	61.1	438.2	41.0	86.5	272.2	699.3	381.6	1,060.8	28.8	530.8	316.3	81	88
1962 ASM.....	(NA)	(NA)	58.9	401.8	39.3	81.2	235.0	671.0	333.0	982.1	26.6	519.4	279.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	54.9	353.0	36.4	72.7	201.5	550.1	281.5	828.4	18.7	(NA)	263.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	58.8	370.9	39.5	80.9	223.8	578.2	311.8	881.7	24.8	(NA)	266.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	52.8	329.5	35.4	72.2	202.0	505.4	262.2	753.8	22.2	(NA)	251.1	(NA)	(NA)
1958 Census.....	627	231	52.9	300.3	36.2	69.6	182.2	421.0	217.7	679.8	18.8	(NA)	231.8	85	89
INDUSTRY 3542.--MACHINE TOOLS, METAL-FORMING TYPES															
1972 Census.....	383	162	24.1	265.4	16.6	34.7	163.8	417.7	285.3	693.6	17.5	(NA)	242.8	89	87
1971 ASM.....	(NA)	(NA)	24.4	241.5	16.0	32.9	142.5	363.9	278.0	667.7	10.4	367.1	233.2	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	28.9	280.6	20.1	43.4	177.3	469.6	328.6	776.1	23.4	351.3	257.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	28.0	270.6	19.4	42.4	172.0	453.1	290.2	726.5	29.5	335.2	234.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	27.9	245.8	19.4	42.9	157.4	453.3	270.0	718.2	28.6	315.8	214.4	(NA)	(NA)
1967 Census.....	350	168	29.2	249.6	20.9	46.2	165.0	437.2	295.4	714.0	26.2	298.6	207.8	85	84
1966 ASM.....	(NA)	(NA)	28.4	244.9	20.9	47.4	164.2	432.1	311.9	727.7	27.6	(NA)	189.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	25.5	205.5	18.5	41.5	138.8	349.0	254.3	582.8	20.5	(NA)	164.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	23.0	180.3	16.7	37.9	121.6	318.5	199.2	504.7	*30.0	242.0	138.6	(NA)	(NA)
1963 Census.....	366	146	22.1	161.7	15.8	34.8	107.4	281.3	165.4	441.4	10.8	212.2	124.2	86	79
1962 ASM.....	(NA)	(NA)	23.4	172.0	18.4	37.0	109.5	265.8	180.7	448.2	*12.7	202.6	135.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.2	158.2	18.3	34.8	101.1	221.7	174.9	413.5	7.7	(NA)	129.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	22.4	152.1	18.0	35.8	100.9	237.6	156.9	384.0	12.6	(NA)	123.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	22.3	146.6	17.9	35.0	94.7	232.0	141.1	357.7	9.7	(NA)	121.6	(NA)	(NA)
1958 Census.....	291	147	22.5	132.4	15.6	30.9	82.2	176.0	130.1	317.7	11.7	(NA)	103.7	82	80
INDUSTRY 3544.--SPECIAL DIES, TOOLS, JIGS, AND FIXTURES															
1972 Census.....	6,616	1,267	98.1	1,116.3	80.7	173.9	846.2	1,799.4	648.2	2,426.7	97.0	(NA)	243.4	94	78
1971 ASM.....	(NA)	(NA)	98.8	1,036.9	80.5	165.9	772.1	1,556.7	591.6	2,160.3	81.9	1,210.2	231.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	111.8	1,151.8	92.0	196.3	874.3	1,800.7	657.5	2,470.8	82.9	1,171.0	241.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	114.5	1,152.0	94.6	212.9	883.3	1,775.9	629.4	2,387.7	102.1	1,119.2	243.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	106.7	1,032.7	88.6	199.8	798.7	1,631.4	562.8	2,193.8	118.4	1,011.5	204.8	(NA)	(NA)
1967 Census.....	6,615	1,531	113.6	1,032.8	95.5	214.2	800.0	1,646.7	577.6	2,202.3	114.7	938.9	214.2	94	74
1966 ASM.....	(NA)	(NA)	120.3	1,028.3	100.8	231.7	792.6	1,664.5	592.6	2,217.9	133.9	(NA)	194.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	108.5	881.0	90.3	209.3	684.3	1,341.7	514.3	1,839.2	80.5	(NA)	167.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	93.8	741.7	78.7	179.1	581.6	1,180.1	403.1	1,571.3	49.5	720.9	134.4	(NA)	(NA)
1963 Census.....	5,896	1,133	90.9	682.7	76.0	169.3	543.0	1,029.3	373.3	1,388.8	53.3	666.1	124.8	93	72
1962 ASM.....	(NA)	(NA)	101.2	706.6	84.2	184.9	553.0	1,106.6	393.8	1,488.3	*49.2	618.5	126.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	90.4	605.3	74.3	156.3	460.0	901.5	312.3	1,201.9	*36.8	(NA)	110.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	93.2	638.2	76.8	163.3	491.8	966.5	342.9	1,315.0	*38.3	(NA)	102.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	89.4	597.9	74.2	158.2	465.0	932.0	311.4	1,235.0	*29.1	(NA)	105.3	(NA)	(NA)
1958 Census.....	5,745	994	83.3	536.6	68.9	139.9	415.2	780.1	275.0	1,060.6	43.2	(NA)	97.1	93	69
INDUSTRY 3545.--MACHINE TOOL ACCESSORIES															
1972 Census.....	1,232	414	47.0	459.0	33.9	67.4	296.4	879.9	380.2	1,249.0	30.6	(NA)	289.5	86	88
1971 ASM.....	(NA)	(NA)	45.9	410.4	31.9	60.8	253.2	716.4	340.2	1,081.2	20.7	550.9	293.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	52.5	461.5	37.4	72.9	293.6	836.8	378.9	1,206.7	35.4	553.7	300.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	59.8	502.1	44.3	92.5	329.5	996.4	422.0	1,398.9	42.3	533.7	305.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	57.9	471.5	42.7	89.9	315.1	910.2	407.2	1,312.8	43.7	494.3	279.6	(NA)	(NA)
1967 Census.....	1,141	429	60.3	479.3	45.2	96.4	324.2	922.8	416.3	1,309.9	55.0	454.4	273.7	85	85
1966 ASM.....	(NA)	(NA)	55.9	429.6	40.9	91.3	287.0	883.3	363.6	1,230.3	53.1	(NA)	231.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	51.9	375.6	37.9	81.8	248.2	732.6	292.6	1,030.7	38.5	(NA)	201.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	49.2	339.4	35.8	75.9	224.0	615.1	266.0	866.5	29.2	354.7	186.7	(NA)	(NA)
1963 Census.....	1,038	347	47.0	312.8	34.6	72.0	208.1	559.3	234.5	787.3	22.8	332.2	171.1	83	84
1962 ASM.....	(NA)	(NA)	48.7	316.1	35.7	75.1	205.4	570.1	244.6	809.3	22.2	313.0	168.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	45.0	273.9	32.3	66.3	172.4	474.1	195.5	667.1	17.7	(NA)	158.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	46.7	283.6	34.0	71.5	182.7	495.6	179.2	682.1	18.0	(NA)	160.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	45.1	266.9	33.3	68.3	174.8	458.3	182.4	634.5	15.4	(NA)	155.7	(NA)	(NA)
1958 Census.....	905	297	41.5	226.9	29.3	56.3	143.7	348.6	143.1	511.5	15.3	(NA)	147.1	85	85

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3546.--POWER-DRIVEN HANDTOOLS															
1972 Census.....	88	65	23.1	202.3	16.9	32.9	124.2	434.5	302.7	730.5	20.3	(NA)	199.7	82	92
1967 Census <sup>2</sup> .....	69	(NA)	22.5	143.3	16.2	32.0	91.7	326.0	194.5	506.3	21.2	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>2</sup> .....	85	(NA)	17.4	100.8	12.8	25.8	64.7	232.4	133.9	365.4	6.1	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>2</sup> .....	82	(NA)	12.6	63.0	8.9	16.7	38.3	136.6	78.2	221.7	8.4	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3547.--ROLLING MILL MACHINERY															
1972 Census.....	47	38	10.4	115.2	7.2	14.2	68.7	206.4	129.0	327.8	6.3	(NA)	81.0	74	86
1967 Census <sup>2</sup> .....	42	(NA)	13.5	114.0	10.3	21.9	79.5	208.7	178.6	389.4	13.9	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>2</sup> .....	45	(NA)	12.5	93.2	9.8	20.0	66.5	143.3	134.1	277.2	10.9	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>2</sup> .....	49	(NA)	13.1	80.2	10.7	20.8	59.8	122.7	123.1	268.3	4.6	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3549.--METALWORKING MACHINERY, N.E.C.															
1972 Census.....	394	134	13.6	131.6	9.2	18.3	77.7	268.3	165.6	427.8	12.3	(NA)	107.7	86	88
1967 Census <sup>2</sup> .....	319	(NA)	10.7	80.7	7.5	15.5	47.6	158.7	105.5	262.4	9.7	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>2</sup> .....	305	(NA)	8.1	52.2	5.6	11.3	30.7	92.8	60.3	153.8	4.0	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>2</sup> .....	231	(NA)	7.6	40.1	4.8	9.4	22.3	73.1	40.0	112.0	3.7	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry	1972 industry	1972 industry	1972 industry	1972 industry	1972 industry	1972 industry	1967 industry
	3541	3542	3544	3545	3546	3547	3549	3548
1972.....	857	375	6,513	1,113	71	40	384	(NA)
1967.....	865	344	6,532	1,073	(NA)	(NA)	(NA)	409
1963.....	784	362	5,850	983	(NA)	(NA)	(NA)	420

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Data for this new industry were derived from Table 8, "General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization," in volume II of the 1967, 1963, and 1958 censuses of manufactures.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual men-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials end payroll per dollar of shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3541.--MACHINE TOOLS, METAL-CUTTING TYPES											
1972 Census.....	10,930	(NA)	64	2,042	4.78	.38	.78	(NA)	17,175	64	13.22
1971 ASM.....	9,872	16,178	62	1,943	4.44	.35	.74	.65	15,181	65	12.71
1970 ASM.....	9,603	12,405	64	2,035	4.24	.36	.74	.49	15,597	62	11.93
1969 ASM.....	9,584	10,770	67	2,098	4.12	.35	.73	.42	17,452	55	12.43
1968 ASM.....	8,958	10,020	68	2,090	3.85	.34	.70	.40	16,336	55	11.46
1967 Census.....	8,718	9,170	69	2,180	3.62	.36	.72	.38	15,962	55	10.55
1966 ASM.....	8,442	(NA)	69	2,240	3.45	.37	.74	(NA)	15,472	55	9.97
1965 ASM.....	7,977	(NA)	69	2,218	3.27	.37	.74	(NA)	14,028	57	9.19
1964 ASM.....	7,648	8,570	68	2,188	3.15	.37	.76	.43	12,850	60	8.59
1963 Census.....	7,177	8,690	67	2,109	3.15	.36	.77	.50	11,454	63	8.09
1962 ASM.....	6,827	8,820	67	2,069	2.89	.34	.75	.53	11,401	60	8.26
1961 ASM.....	6,429	(NA)	66	1,999	2.77	.34	.77	(NA)	10,020	64	7.57
1960 ASM.....	6,310	(NA)	67	2,049	2.77	.35	.77	(NA)	9,837	64	7.15
1959 ASM.....	6,241	(NA)	67	2,036	2.80	.35	.78	(NA)	9,573	65	7.00
1958 Census.....	5,681	(NA)	68	1,926	2.62	.32	.76	(NA)	7,963	71	6.05

See footnote at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3542.--MACHINE TOOLS, METAL-FORMING TYPES											
1972 Census.....	11,012	(NA)	69	2,090	4.72	.41	.79	(NA)	17,332	64	12.04
1971 ASM.....	9,898	15,045	66	2,056	4.33	.42	.78	.55	14,914	66	11.06
1970 ASM.....	9,709	12,156	70	2,159	4.09	.42	.78	.45	16,249	60	10.82
1969 ASM.....	9,664	11,970	69	2,186	4.06	.40	.77	.46	16,182	60	10.69
1968 ASM.....	8,810	11,320	70	2,211	3.67	.38	.72	.44	16,247	54	10.57
1967 Census.....	8,534	10,230	72	2,206	3.57	.41	.76	.41	14,948	57	9.47
1966 ASM.....	8,622	(NA)	74	2,268	3.46	.43	.77	(NA)	15,212	57	9.11
1965 ASM.....	8,052	(NA)	73	2,241	3.35	.44	.79	(NA)	13,677	59	8.41
1964 ASM.....	7,837	10,520	73	2,264	3.21	.39	.75	.48	13,847	57	8.41
1963 Census.....	7,323	9,600	71	2,194	3.10	.37	.74	.48	12,741	57	8.12
1962 ASM.....	7,351	8,660	79	2,012	2.96	.40	.79	.45	11,363	65	7.18
1961 ASM.....	6,818	(NA)	79	1,905	2.91	.42	.81	(NA)	9,552	71	6.37
1960 ASM.....	6,785	(NA)	80	1,996	2.82	.41	.80	(NA)	10,596	64	6.63
1959 ASM.....	6,575	(NA)	80	1,957	2.70	.39	.80	(NA)	10,407	63	6.62
1958 Census.....	5,882	(NA)	69	1,985	2.66	.41	.83	(NA)	7,822	75	5.70
INDUSTRY 3544.--SPECIAL DIES, TOOLS, JIGS, AND FIXTURES											
1972 Census.....	11,379	(NA)	82	2,155	4.87	.27	.73	(NA)	18,343	62	10.35
1971 ASM.....	10,495	12,249	82	2,061	4.65	.27	.75	.56	15,756	67	9.38
1970 ASM.....	10,302	10,474	82	2,134	4.45	.27	.73	.47	16,106	64	9.17
1969 ASM.....	10,061	9,770	83	2,251	4.15	.26	.75	.47	15,510	65	8.34
1968 ASM.....	9,679	9,480	83	2,255	4.00	.26	.73	.46	15,290	63	8.17
1967 Census.....	9,094	8,260	84	2,242	3.74	.26	.73	.43	14,500	63	7.69
1966 ASM.....	8,546	(NA)	84	2,299	3.42	.27	.73	(NA)	13,834	62	7.18
1965 ASM.....	8,123	(NA)	83	2,319	3.27	.28	.76	(NA)	12,371	66	6.41
1964 ASM.....	7,908	7,690	84	2,276	3.25	.26	.73	.46	12,583	63	6.59
1963 Census.....	7,514	7,330	84	2,228	3.21	.27	.76	.42	11,329	66	6.08
1962 ASM.....	6,983	6,110	83	2,197	2.99	.26	.74	.42	10,937	64	5.98
1961 ASM.....	6,697	(NA)	82	2,105	2.94	.26	.76	(NA)	9,974	67	5.77
1960 ASM.....	6,844	(NA)	82	2,125	3.01	.26	.75	(NA)	10,366	66	5.92
1959 ASM.....	6,684	(NA)	83	2,131	2.94	.25	.74	(NA)	10,420	64	5.89
1958 Census.....	6,441	(NA)	83	2,030	2.97	.26	.77	(NA)	9,364	69	5.58
INDUSTRY 3545.--MACHINE TOOL ACCESSORIES											
1972 Census.....	9,766	(NA)	72	1,988	4.40	.30	.67	(NA)	18,721	52	13.05
1971 ASM.....	8,941	12,002	70	1,906	4.16	.31	.69	.51	15,608	57	11.78
1970 ASM.....	8,790	10,547	71	1,949	4.03	.31	.70	.46	15,939	55	11.48
1969 ASM.....	8,396	8,920	74	2,088	3.56	.30	.66	.38	16,662	50	10.77
1968 ASM.....	8,143	8,540	74	2,105	3.51	.31	.67	.38	15,720	52	10.12
1967 Census.....	7,943	7,540	75	2,132	3.36	.32	.68	.35	15,293	52	9.58
1966 ASM.....	7,689	(NA)	73	2,231	3.14	.30	.64	(NA)	15,809	49	9.68
1965 ASM.....	7,241	(NA)	73	2,156	3.03	.28	.65	(NA)	14,122	51	8.95
1964 ASM.....	6,895	7,210	73	2,121	2.95	.31	.70	.41	12,495	55	8.10
1963 Census.....	6,656	7,070	74	2,084	2.89	.30	.70	.42	11,901	56	7.76
1962 ASM.....	6,487	6,430	73	2,105	2.73	.30	.69	.39	11,698	55	7.59
1961 ASM.....	6,089	(NA)	72	2,055	2.60	.29	.70	(NA)	10,539	58	7.15
1960 ASM.....	6,070	(NA)	73	2,106	2.55	.26	.68	(NA)	10,604	57	6.93
1959 ASM.....	5,918	(NA)	74	2,051	2.56	.29	.71	(NA)	10,160	58	6.71
1958 Census.....	5,466	(NA)	71	1,921	2.55	.28	.72	(NA)	8,395	65	6.19
INDUSTRY 3546.--POWER-DRIVEN HANDTOOLS											
1972 Census.....	8,758	(NA)	73	1,947	3.50	.41	.69	(NA)	18,810	47	13.21
INDUSTRY 3547.--ROLLING MILL MACHINERY											
1972 Census.....	11,077	(NA)	69	1,972	4.84	.63	.74	(NA)	19,846	56	14.54
INDUSTRY 3549.--METALWORKING MACHINERY, N.E.C.											
1972 Census.....	9,676	(NA)	68	1,989	4.25	.39	.69	(NA)	19,728	49	14.66

(NA) Not available.



TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3546.--Power-Driven Handtools.....	88	65	23.1	434.5	730.5	(X)	(X)	(X)	(X)	(X)
Old industry 3548.--Metalworking Machinery, N.E.C.....	88	65	23.1	434.5	730.5	529	237	47.1	909.2	1,486.1
New industry 3547.--Rolling Mill Machinery.....	47	38	10.4	206.4	327.8	(X)	(X)	(X)	(X)	(X)
Old industry 3548.--Metalworking Machinery, N.E.C.....	47	38	10.4	206.4	327.8	529	237	47.1	909.2	1,486.1
New industry 3549.--Metalworking Machinery, N.E.C.....	394	134	13.6	268.3	427.8	(X)	(X)	(X)	(X)	(X)
Old industry 3548.--Metalworking Machinery, N.E.C.....	394	134	13.6	268.3	427.8	529	237	47.1	909.2	1,486.1

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3541-- MACHINE TOOLS, METAL-CUTTING TYPES													
UNITED STATES. . . . .	894	275	52.5	573.8	33.4	68.2	325.9	901.7	536.3	1 418.1	35.2	(NA)	(NA)
NORTHEAST REGION . . . . .	254	75	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	31.0	473.2
NEW ENGLAND DIVISION . . . . .	109	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.9	328.7
NEW HAMPSHIRE. . . . .	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VERMONT. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS. . . . .	34	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	66.9
RHODE ISLAND . . . . .	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	50	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.2	151.1
MIDDLE ATLANTIC DIVISION . . . . .	145	35	6.5	71.1	4.5	9.6	45.2	115.4	46.1	165.8	4.3	8.1	144.5
NEW YORK . . . . .	65	21	4.7	52.1	3.3	6.8	33.8	84.3	31.4	121.6	(D)	5.6	105.7
NEW JERSEY . . . . . E2	43	5	.4	3.8	.3	.5	2.4	7.3	4.4	11.4	(D)	.7	11.3
PENNSYLVANIA . . . . .	37	9	1.5	15.1	1.0	2.3	9.1	23.9	10.4	32.8	(D)	1.8	27.5
NORTH CENTRAL REGION . . . . .	467	167	32.5	365.2	19.8	39.9	198.4	564.7	371.3	916.3	23.4	51.5	848.8
EAST NORTH CENTRAL DIVISION. . . . .	438	154	31.0	348.6	18.7	37.6	187.6	537.7	357.2	875.1	22.3	49.9	823.9
OHIO . . . . .	93	38	12.4	127.0	7.1	13.2	63.0	186.1	127.3	311.8	8.0	20.9	331.6
INDIANA . . . . .	25	5	.9	8.9	.6	1.4	6.0	13.1	7.9	20.4	.9	1.1	14.1
ILLINOIS . . . . .	111	36	6.4	72.2	3.7	7.9	36.1	114.3	68.6	176.8	5.6	9.1	134.4
MICHIGAN . . . . .	171	56	7.4	97.3	5.1	10.7	60.7	168.7	123.1	279.0	6.4	11.4	221.8
WISCONSIN. . . . .	38	19	3.9	43.1	2.2	4.4	21.8	55.6	30.4	87.2	1.5	7.3	122.0
WEST NORTH CENTRAL DIVISION. . . . .	29	13	1.5	16.6	1.1	2.3	10.8	27.0	14.1	41.2	1.1	1.6	25.0
MINNESOTA . . . . .	9	4	.6	7.0	.5	1.0	4.3	9.3	4.2	13.7	.3	.9	13.9
IDWA . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	9	4	.5	5.6	.3	.7	3.9	9.7	4.2	14.0	.2	.8	(D)
SOUTH REGION . . . . .	52	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	31.2
SOUTH ATLANTIC DIVISION. . . . . E2	21	3	.3	2.9	.2	.4	1.5	5.1	4.0	8.9	.2	.3	3.0
NORTH CAROLINA . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	18	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.4
KENTUCKY . . . . .	8	2	.2	1.8	.1	.3	1.0	1.7	3.3	4.7	(Z)	.8	(D)
TENNESSEE. . . . .	5	2	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	13	5	.4	3.8	.4	.7	2.4	2.7	5.3	7.5	.4	1.4	21.8
TEXAS. . . . .	10	5	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3541-- MACHINE TOOLS, METAL-CUTTING TYPES--CONTINUED													
WEST REGION. . . . . E1	121	21	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.5	38.1
PACIFIC DIVISION. . . . . E1	116	19	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.4	36.8
CALIFORNIA. . . . . E1	105	16	1.5	15.4	1.1	2.1	9.2	24.4	16.0	42.9	(0)	2.2	34.8
3542-- MACHINE TOOLS, METAL-FORMING TYPES													
UNITED STATES. . . . .	383	162	24.1	265.4	16.6	34.7	163.8	417.7	285.3	693.6	17.5	(NA)	(NA)
NORTHEAST REGION. . . . .	104	41	5.9	61.8	3.9	7.8	35.1	91.6	59.6	151.5	3.5	7.7	106.6
NEW ENGLAND DIVISION. . . . .	31	12	2.0	21.6	1.2	2.7	11.2	31.7	17.7	47.6	1.1	2.4	36.5
MASSACHUSETTS. . . . . E1	6	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
CONNECTICUT. . . . .	22	10	1.8	20.1	1.1	2.4	10.3	29.1	16.1	43.6	1.1	2.1	33.3
MIDDLE ATLANTIC DIVISION. . . . .	73	29	3.9	40.2	2.7	5.1	23.9	59.9	41.9	103.9	2.4	5.3	70.1
NEW YORK. . . . .	29	13	2.3	24.2	1.6	3.0	14.5	36.9	23.4	60.8	1.0	3.2	39.2
NEW JERSEY. . . . . E1	23	8	.4	3.6	.3	.6	2.2	6.0	4.1	10.3	.6	.4	4.9
PENNSYLVANIA. . . . .	21	8	1.2	12.4	.9	1.5	7.2	17.1	14.4	32.9	.8	1.6	26.0
NORTH CENTRAL REGION. . . . .	203	98	15.3	172.9	10.7	22.5	107.7	271.9	185.5	456.8	12.1	18.6	289.2
EAST NORTH CENTRAL DIVISION. . . . .	182	86	14.5	165.3	10.0	21.2	102.8	255.5	177.7	432.8	11.4	17.6	276.2
OHIO. . . . .	39	26	5.1	57.2	3.4	7.0	32.0	103.0	53.0	155.3	6.7	7.3	121.5
INDIANA. . . . .	12	8	.5	5.1	.4	.8	3.4	9.4	5.9	15.5	.4	.4	6.5
ILLINOIS. . . . .	53	28	6.1	70.0	3.9	6.9	45.9	91.0	78.9	172.7	2.4	7.4	106.2
MICHIGAN. . . . .	69	23	2.6	31.6	1.9	4.0	20.7	49.9	38.9	86.4	1.8	2.4	38.9
WEST NORTH CENTRAL DIVISION. . . . .	21	12	.9	7.7	.6	1.3	5.0	16.4	7.8	24.0	.7	1.0	13.0
MINNESOTA. . . . .	7	4	.4	3.9	.3	.6	2.6	7.7	3.8	11.4	.2	.6	8.4
MISSOURI. . . . .	7	2	.2	1.2	.1	.3	.8	1.8	1.1	2.9	(Z)	.2	2.4
SOUTH REGION. . . . .	30	9	1.0	9.9	.7	1.6	6.5	18.7	12.2	29.7	.6	1.0	12.7
SOUTH ATLANTIC DIVISION. . . . .	15	5	.7	7.4	.5	1.2	5.0	14.9	9.3	23.2	.4	.8	10.1
NORTH CAROLINA. . . . .	3	1	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
GEORGIA. . . . .	3	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	3.7
FLORIDA. . . . .	7	2	.2	1.9	.1	.3	1.5	2.1	1.4	3.8	.1	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . . E1	9	2	.2	1.5	.1	.2	.8	2.8	2.1	4.8	.2	AA	(0)
TEXAS. . . . . E1	9	2	.2	1.5	.1	.2	.8	2.8	2.1	4.8	.2	AA	(0)
WEST REGION. . . . .	47	15	2.0	21.6	1.4	2.9	15.0	39.0	30.7	64.2	1.3	1.9	28.7
MOUNTAIN DIVISION. . . . .	7	3	.3	3.0	.2	.5	2.2	7.9	5.0	11.7	.2	(NA)	(NA)
COLORADO. . . . .	6	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION. . . . .	39	11	1.6	17.9	1.0	2.4	12.2	27.4	23.1	46.5	1.1	1.9	28.6
WASHINGTON. . . . .	3	1	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
CALIFORNIA. . . . .	34	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
3544-- SPECIAL DIES, TOOLS, JIGS, ETC.													
UNITED STATES. . . . . E1	6 616	1 267	98.1	1 116.3	80.7	173.9	846.2	1 799.4	648.2	2 426.7	97.0	(NA)	(NA)
NORTHEAST REGION. . . . . E2	1 912	325	23.4	244.4	19.2	41.1	183.4	414.3	139.1	548.7	21.6	27.0	357.8
NEW ENGLAND DIVISION. . . . . E2	648	118	7.9	80.9	6.5	13.9	60.0	132.0	45.4	175.2	7.1	8.9	118.7
NEW HAMPSHIRE. . . . . E4	16	3	.2	1.9	.2	.3	1.5	2.8	.7	3.5	.2	AA	(0)
MASSACHUSETTS. . . . . E2	267	58	3.7	38.5	3.0	6.5	28.8	64.3	23.7	86.5	3.6	4.0	50.8
RHODE ISLAND. . . . . E2	56	7	.7	5.6	.7	1.4	4.3	9.6	2.7	11.8	(0)	.4	3.9
CONNECTICUT. . . . . E2	295	45	3.0	32.9	2.5	5.4	23.9	52.0	17.6	69.6	2.8	4.2	59.7
MIDDLE ATLANTIC DIVISION. . . . . E1	1 264	207	15.5	163.5	12.7	27.2	123.4	282.3	93.8	373.5	14.5	18.1	239.2
NEW YORK. . . . . E2	505	70	5.1	53.0	4.1	9.0	38.2	89.3	28.6	117.2	5.7	6.6	83.7
NEW JERSEY. . . . . E2	381	53	4.5	46.7	3.6	7.5	35.9	75.5	26.4	100.7	4.0	5.9	79.0
PENNSYLVANIA. . . . . E1	378	84	6.0	63.9	5.0	10.7	49.3	117.5	38.7	155.6	4.8	5.7	76.5
NORTH CENTRAL REGION. . . . . E1	3 536	756	62.3	748.8	51.2	111.6	571.2	1 177.2	432.6	1 596.5	58.9	73.8	1 105.4
EAST NORTH CENTRAL DIVISION. . . . . E1	3 236	699	57.9	704.8	45.5	104.2	537.1	1 104.0	403.2	1 495.1	54.1	69.5	1 045.6
OHIO. . . . . E1	758	172	13.9	152.1	11.6	25.5	116.8	243.6	83.9	323.3	12.2	15.9	231.2
INDIANA. . . . . E1	346	76	5.9	65.0	4.8	10.5	49.0	94.7	30.9	124.3	4.7	6.7	89.1
ILLINOIS. . . . . E2	710	109	8.6	103.0	7.1	15.2	77.7	168.3	60.7	227.1	10.7	10.6	158.0
MICHIGAN. . . . . E1	1 205	306	25.7	338.5	21.0	46.4	257.7	535.1	203.3	734.2	22.8	32.3	518.3
WISCONSIN. . . . . E2	217	36	3.8	46.2	3.1	6.7	36.0	62.3	24.4	86.0	3.6	4.0	49.0
WEST NORTH CENTRAL DIVISION. . . . . E1	300	57	4.4	44.1	3.7	7.4	34.0	73.2	29.4	101.5	4.8	4.3	59.8
MINNESOTA. . . . . E1	87	17	1.4	14.5	1.1	2.3	11.0	24.2	9.8	33.5	1.7	1.2	17.3
IOWA. . . . . E1	40	7	.7	7.1	.6	1.3	5.8	10.8	4.3	15.0	.6	.8	11.5
MISSOURI. . . . . E1	132	24	1.7	18.2	1.4	2.8	13.9	29.2	10.8	39.5	1.3	1.9	24.9
KANSAS. . . . .	29	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	4.9
SOUTH REGION. . . . . E2	521	95	5.9	53.8	5.0	10.3	40.3	91.4	34.4	125.3	8.5	5.6	70.1
SOUTH ATLANTIC DIVISION. . . . . E2	234	46	3.1	29.0	2.7	5.4	21.7	49.4	18.9	67.8	5.4	2.9	32.4
MARYLAND. . . . . E2	20	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	3.2
VIRGINIA. . . . .	14	7	.3	3.1	.3	.6	2.2	4.6	1.0	5.5	.3	.2	2.8
NORTH CAROLINA. . . . . E4	39	7	.8	7.1	.7	1.3	5.7	12.6	5.5	18.0	1.6	.6	4.9
SOUTH CAROLINA. . . . .	24	4	.2	2.0	.2	1.4	1.5	2.9	1.9	4.7	.2	AA	(0)
GEORGIA. . . . .	35	11	.7	5.6	.6	1.2	4.2	10.0	3.6	13.5	.8	.5	6.0
FLORIDA. . . . . E4	90	13	.9	8.9	.7	1.6	6.4	15.4	5.5	20.8	2.3	1.0	12.4

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees¹	Value added by manufacture
	Total	With 20 employees or more	Number¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3544-- SPECIAL DIES, TOOLS, JIGS, ETC.--CONTINUED													
SOUTH REGION--CONTINUED													
EAST SOUTH CENTRAL DIVISION. . . E2	162	39	1.9	17.3	1.6	3.4	12.8	28.3	10.9	39.2	2.0	1.7	23.0
KENTUCKY . . . . . E3	50	10	.6	4.7	.5	1.0	3.6	8.1	3.6	11.7	.6	88	(0)
TENNESSEE . . . . . E2	81	22	.9	9.1	.8	1.7	6.6	13.8	5.1	19.0	.9	EE	(0)
ALABAMA . . . . . E1	20	5	.3	2.6	.2	.5	1.9	4.8	1.7	6.5	.4	AA	(0)
WEST SOUTH CENTRAL DIVISION. . . E4	125	10	.8	7.6	.7	1.4	5.7	13.7	4.7	18.3	1.1	1.1	14.6
TEXAS . . . . . E4	79	5	.6	5.1	.5	1.0	3.9	9.2	3.2	12.4	.8	.8	11.2
WEST REGION. . . . . E2	647	91	6.5	69.3	5.4	10.9	51.3	116.5	42.1	156.2	7.9	7.2	113.4
MOUNTAIN DIVISION. . . . . E3	61	6	.6	4.9	.5	.9	3.9	7.8	2.9	10.7	1.0	.5	6.5
COLORADO . . . . . E2	27	3	.3	2.3	.2	.4	1.8	3.9	1.3	5.2	(D)	(NA)	(NA)
ARIZONA . . . . . E5	23	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	4.0
PACIFIC DIVISION . . . . . E2	586	85	6.0	64.4	4.9	10.0	47.5	108.6	39.2	145.6	6.9	6.6	110.1
OREGON . . . . . E2	23	4	.2	1.6	.1	.3	1.4	2.6	.9	3.5	.1	(NA)	(NA)
CALIFORNIA . . . . . E2	547	78	5.7	61.3	4.6	9.6	45.0	103.8	37.0	138.7	6.5	6.5	107.9
3545-- MACHINE TOOL ACCESSORIES													
UNITED STATES. . . . .	1 232	414	47.0	459.0	33.9	67.4	296.4	879.9	380.2	1 249.0	30.6	(NA)	(NA)
NORTHEAST REGION . . . . .	382	120	18.0	167.0	12.6	25.2	106.9	319.6	143.8	461.7	11.7	21.2	297.8
NEW ENGLAND DIVISION . . . . .	200	69	12.0	111.8	8.5	17.4	73.7	213.7	72.5	284.4	8.3	13.2	189.4
NEW HAMPSHIRE. . . . .	8	7	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	.4	4.5
VERMONT. . . . .	6	5	1.2	9.5	1.0	2.0	7.5	24.1	13.3	36.4	(D)	1.0	11.9
MASSACHUSETTS. . . . .	68	24	6.1	59.0	4.4	9.0	39.8	108.5	32.3	141.1	2.3	7.5	110.3
RHODE ISLAND . . . . .	23	6	1.1	10.2	.7	1.3	5.9	19.4	5.2	24.4	.5	EE	(0)
CONNECTICUT. . . . .	92	24	3.1	29.8	2.1	4.3	18.2	55.0	18.4	73.0	1.2	3.0	45.2
MIDDLE ATLANTIC DIVISION . . . .	182	51	6.0	55.3	4.1	7.8	33.1	105.9	71.4	177.2	3.4	8.0	108.3
NEW YORK . . . . .	80	20	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	2.1	27.4
NEW JERSEY . . . . . E1	53	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	1.3	20.7
PENNSYLVANIA . . . . .	49	22	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	4.6	60.2
NORTH CENTRAL REGION . . . . .	620	243	24.6	256.0	17.8	35.3	164.2	485.5	195.7	675.9	14.2	34.9	565.4
EAST NORTH CENTRAL DIVISION. . .	595	233	23.6	246.5	17.2	34.0	159.2	466.4	187.7	648.2	13.7	33.3	542.2
OHIO . . . . .	121	52	6.5	64.3	4.8	9.4	43.3	123.8	44.9	166.6	3.4	8.6	140.1
INDIANA . . . . . E1	34	11	.7	5.8	.5	.9	3.8	10.2	4.5	14.7	.6	.8	10.2
ILLINOIS . . . . .	90	28	4.7	48.2	3.2	6.2	28.4	84.0	30.4	113.7	2.9	6.4	85.4
MICHIGAN . . . . .	314	132	10.8	119.3	8.0	16.3	78.0	231.2	100.3	329.7	6.4	16.8	294.4
WISCONSIN. . . . .	36	10	.9	8.9	.6	1.2	5.7	17.2	7.6	23.5	.4	.7	12.0
WEST NORTH CENTRAL DIVISION. . .	25	10	1.0	9.5	.7	1.2	5.0	19.1	8.0	27.7	.5	1.6	23.2
MINNESOTA. . . . .	13	4	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	CC	(0)
MISSOURI . . . . .	7	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	CC	(0)
SOUTH REGION . . . . .	95	27	2.8	21.4	2.2	4.5	15.5	46.2	28.3	71.4	2.9	2.3	27.0
SOUTH ATLANTIC DIVISION. . . . E1	51	13	1.1	8.4	.9	1.9	6.5	15.8	14.5	28.3	1.2	.6	8.8
NORTH CAROLINA . . . . .	9	4	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	AA	(0)
SOUTH CAROLINA . . . . .	6	4	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	.2	3.5
FLORIDA . . . . . E3	24	2	.2	1.4	.1	.2	.9	1.9	1.8	3.6	.1	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	16	7	.8	6.0	.6	1.3	4.6	15.9	7.9	23.1	.6	CC	(0)
KENTUCKY . . . . .	4	4	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	.3	5.9
TENNESSEE. . . . .	8	3	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	.4	4.3
WEST SOUTH CENTRAL DIVISION. . E1	28	7	.9	6.9	.7	1.4	4.5	14.6	5.9	20.0	1.1	.8	7.3
ARKANSAS . . . . .	7	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	CC	(0)
TEXAS. . . . . E3	20	3	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
WEST REGION. . . . . E3	135	24	1.6	14.6	1.2	2.4	9.8	28.6	12.4	40.1	1.8	2.0	32.7
PACIFIC DIVISION . . . . . E3	121	22	1.5	13.7	1.1	2.3	9.2	28.9	12.6	40.6	1.8	2.0	32.4
CALIFORNIA . . . . . E3	115	21	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	EE	(0)
3546-- POWER DRIVEN HANDTOOLS													
UNITED STATES. . . . .	88	65	23.1	202.3	16.9	32.9	124.2	434.5	302.7	730.5	20.3	(NA)	(NA)
NORTHEAST REGION . . . . .	15	11	4.7	45.9	3.5	6.9	30.7	109.6	38.7	141.5	1.5	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	5	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	3	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	10	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
NEW YORK . . . . .	7	5	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	44	35	10.0	85.8	6.9	15.6	47.6	158.5	130.5	293.3	9.9	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	38	30	8.7	76.8	5.8	11.5	41.5	142.7	112.9	261.5	9.1	(NA)	(NA)
OHIO . . . . .	14	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
ILLINOIS . . . . .	16	14	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
MICHIGAN . . . . .	5	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
WISCONSIN. . . . .	3	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	6	5	1.3	9.0	1.1	2.1	6.1	15.8	17.5	31.8	.7	(NA)	(NA)
MINNESOTA. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
IOWA . . . . .	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)
MISSOURI . . . . .	4	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3546-- POWER DRIVEN HANDTOOLS--CONTINUED													
SOUTH REGION . . . . .	14	12	7.9	66.2	6.2	11.8	43.5	156.3	128.5	281.6	8.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	11	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA . . . . .	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE . . . . .	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	2	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	2	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	15	7	.5	4.4	.3	.6	2.4	10.0	5.0	14.0	.2	(NA)	(NA)
PACIFIC DIVISION . . . . .	14	6	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	13	6	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3547-- ROLLING MILL MACHINERY													
UNITED STATES . . . . .	47	38	10.4	115.2	7.2	14.2	68.7	206.4	129.0	327.8	6.3	(NA)	(NA)
NORTHEAST REGION . . . . .	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	11	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	28	21	5.4	61.0	3.7	7.4	37.3	101.5	76.8	178.5	3.3	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	23	17	5.1	58.8	3.5	7.0	35.8	98.5	73.8	172.7	3.0	(NA)	(NA)
OHIO . . . . .	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	5	4	.3	2.2	.2	.3	1.5	3.0	3.0	5.8	.3	(NA)	(NA)
SOUTH REGION . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	2	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA . . . . .	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3549-- METALWORKING MACHINERY, NEC													
UNITED STATES . . . . . E1	394	134	13.6	131.6	9.2	18.3	77.7	268.3	165.6	427.8	12.3	(NA)	(NA)
NORTHEAST REGION . . . . .	104	43	4.3	41.9	2.8	5.5	24.6	81.0	48.3	127.0	3.2	(NA)	(NA)
NEW ENGLAND DIVISION . . . . . E1	45	15	1.1	10.7	.7	1.3	5.9	21.5	12.0	33.3	1.6	(NA)	(NA)
MASSACHUSETTS . . . . .	19	7	.5	4.7	.4	.6	2.6	10.1	6.3	16.3	.7	(NA)	(NA)
CONNECTICUT . . . . . E3	18	6	.4	4.6	.3	.6	2.7	7.4	3.7	11.0	.7	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	59	28	3.2	31.2	2.1	4.2	18.8	59.5	36.3	93.7	1.7	(NA)	(NA)
NEW YORK . . . . .	25	11	1.1	11.7	.7	1.4	6.7	20.9	17.2	37.7	1.0	(NA)	(NA)
NEW JERSEY . . . . .	18	9	1.1	9.5	.8	1.5	6.6	19.2	10.5	29.1	.4	(NA)	(NA)
PENNSYLVANIA . . . . .	16	8	1.1	10.0	.6	1.3	5.4	19.5	8.6	26.9	.3	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	192	72	7.5	75.5	5.0	10.2	44.0	151.4	97.8	247.3	6.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	151	54	5.2	53.8	3.4	7.2	32.3	96.6	69.8	165.6	4.3	(NA)	(NA)
OHIO . . . . .	39	14	1.6	14.5	1.0	2.2	8.9	27.0	24.7	50.2	1.3	(NA)	(NA)
INDIANA . . . . .	13	5	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	33	10	1.0	10.5	.6	1.3	6.3	20.4	13.7	33.0	.6	(NA)	(NA)
MICHIGAN . . . . .	53	19	1.5	17.6	1.1	2.2	10.9	30.4	21.9	53.6	2.0	(NA)	(NA)
WISCONSIN . . . . .	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	41	18	2.3	21.7	1.6	3.0	11.7	54.9	28.1	81.7	2.4	(NA)	(NA)
MINNESOTA . . . . .	10	5	.6	7.2	.4	.8	4.0	14.6	6.9	21.0	.5	(NA)	(NA)
IOWA . . . . .	10	5	.7	6.1	.5	.9	3.3	13.3	9.9	22.8	(D)	(NA)	(NA)
MISSOURI . . . . . E2	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . . E2	35	6	1.1	7.6	.9	1.6	5.0	22.9	11.0	33.2	1.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . . E3	14	3	.4	2.3	.3	.6	1.7	5.1	3.5	8.5	.5	(NA)	(NA)
FLORIDA . . . . .	3	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	14	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	9	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . . E3	63	13	.8	6.6	.5	1.0	4.1	12.9	8.4	20.3	1.8	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	8	4	.2	1.2	.1	.1	.7	2.2	1.8	4.0	.3	(NA)	(NA)
PACIFIC DIVISION . . . . . E4	55	9	.6	5.5	.4	.8	3.4	10.7	6.6	16.3	1.5	(NA)	(NA)
CALIFORNIA . . . . . E4	49	9	.5	5.1	.4	.7	3.2	10.1	6.1	15.1	1.5	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

(See appendix. Explanation of Terms)

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3541-- MACHINE TOOLS, METAL-CUTTING TYPES											
ESTABLISHMENTS, TOTAL. . . . .	894	52.5	573.8	33.4	68.2	325.9	901.7	536.3	1 418.1	35.2	482.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	281	.6	5.3	.4	.7	3.2	12.1	6.6	18.8	.7	5.0
5 TO 9 EMPLOYEES . . . . . E4	158	1.1	10.3	.7	1.5	6.7	19.1	9.0	28.0	1.0	6.6
10 TO 19 EMPLOYEES . . . . .	180	2.5	25.0	1.8	3.8	16.2	44.6	20.3	63.3	1.1	9.5
20 TO 49 EMPLOYEES . . . . .	126	3.9	38.7	2.8	5.7	23.9	64.3	41.4	104.1	2.3	21.2
50 TO 99 EMPLOYEES . . . . .	55	3.8	40.8	2.5	5.5	24.4	65.2	45.5	111.9	3.0	33.2
100 TO 249 EMPLOYEES . . . . .	47	7.0	76.7	4.7	9.8	46.2	120.9	89.3	210.3	6.0	68.2
250 TO 499 EMPLOYEES . . . . .	24	8.4	94.6	5.4	10.6	54.8	160.1	114.0	267.9	5.4	94.4
500 TO 999 EMPLOYEES . . . . .	14	9.2	103.4	6.0	13.2	62.7	178.0	84.8	247.3	3.8	107.5
1,000 TO 2,499 EMPLOYEES . . . . .	7	16.2	179.0	9.0	17.4	87.9	237.2	125.6	366.5	11.8	136.4
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	265	.7	6.9	.5	.9	4.0	14.1	8.0	22.1	.7	6.7
3542-- MACHINE TOOLS, METAL-FORMING TYPES											
ESTABLISHMENTS, TOTAL. . . . .	383	24.1	265.4	16.6	34.7	163.8	417.7	285.3	693.6	17.5	242.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	99	.2	1.8	.1	.3	1.1	3.5	2.8	6.4	.3	1.7
5 TO 9 EMPLOYEES . . . . . E4	54	.4	3.8	.3	.6	2.6	6.2	4.0	10.0	.5	2.3
10 TO 19 EMPLOYEES . . . . .	68	.9	9.0	.7	1.4	6.0	15.7	7.9	23.0	.5	4.0
20 TO 49 EMPLOYEES . . . . .	68	2.1	21.4	1.6	3.3	14.2	39.4	23.0	61.9	1.9	10.6
50 TO 99 EMPLOYEES . . . . .	34	2.4	25.6	1.7	3.7	15.6	44.4	27.7	71.9	1.6	19.3
100 TO 249 EMPLOYEES . . . . .	36	5.5	58.8	3.7	7.6	35.9	98.8	67.8	165.7	3.2	49.2
250 TO 499 EMPLOYEES . . . . .	13	4.2	47.9	2.9	6.6	31.7	67.6	49.5	115.8	1.5	68.2
500 TO 999 EMPLOYEES . . . . .	10	8.4	97.1	5.7	11.4	56.5	142.2	102.5	241.7	8.0	87.4
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	90	.2	2.1	.2	.3	1.3	3.6	2.7	6.3	.2	1.9
3544-- SPECIAL DIES, TOOLS, JIGS, ETC.											
ESTABLISHMENTS, TOTAL. . . . . E1	6 616	98.1	1 116.3	80.7	173.9	846.2	1 799.4	648.2	2 426.7	97.0	243.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	2 752	5.2	53.9	5.1	9.4	40.8	115.9	40.9	156.8	12.8	13.7
5 TO 9 EMPLOYEES . . . . . E4	1 262	8.5	91.1	7.1	15.0	70.0	153.9	49.0	202.2	12.5	14.8
10 TO 19 EMPLOYEES . . . . . E1	1 335	18.3	201.1	14.9	32.3	151.7	322.7	104.5	423.8	17.6	29.5
20 TO 49 EMPLOYEES . . . . .	920	27.1	305.4	22.1	48.3	228.4	487.2	171.9	650.8	25.2	60.7
50 TO 99 EMPLOYEES . . . . .	224	14.9	170.7	12.0	26.3	128.2	269.5	98.3	363.9	15.0	41.4
100 TO 249 EMPLOYEES . . . . .	107	15.2	173.3	12.4	27.4	135.2	288.3	127.5	411.7	12.1	63.8
250 TO 499 EMPLOYEES . . . . .	9	2.6	26.3	2.1	4.4	19.5	37.4	15.6	52.8	.4	7.5
500 TO 999 EMPLOYEES . . . . . E2	4	2.4	31.4	1.8	4.0	23.9	31.0	15.8	47.1	.7	3.5
1,000 TO 2,499 EMPLOYEES . . . . .	3	3.9	63.2	3.1	6.9	48.4	93.3	24.8	117.6	.7	8.5
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	2 841	7.7	79.2	7.2	13.7	59.0	156.2	56.0	212.2	17.4	19.3
3545-- MACHINE TOOL ACCESSORIES											
ESTABLISHMENTS, TOTAL. . . . .	1 232	47.0	459.0	33.9	67.4	296.4	879.9	380.2	1 249.0	30.6	289.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	388	.7	6.3	.6	1.0	4.1	13.8	6.2	19.9	.7	4.6
5 TO 9 EMPLOYEES . . . . . E5	206	1.4	12.8	1.0	2.0	8.6	24.1	9.9	33.9	.9	5.9
10 TO 19 EMPLOYEES . . . . . E1	224	3.1	30.6	2.4	4.9	20.8	52.9	22.8	75.4	2.1	10.7
20 TO 49 EMPLOYEES . . . . .	229	7.0	69.9	5.5	11.1	47.9	130.6	56.2	184.0	5.3	29.0
50 TO 99 EMPLOYEES . . . . .	82	5.7	55.7	4.3	9.0	37.6	105.6	47.8	149.9	3.8	32.1
100 TO 249 EMPLOYEES . . . . .	63	9.7	92.4	6.8	13.8	56.7	179.4	79.4	255.2	5.3	67.0
250 TO 499 EMPLOYEES . . . . .	28	9.4	88.4	6.6	12.4	55.2	161.6	58.4	217.7	7.0	65.3
500 TO 999 EMPLOYEES . . . . .	7	4.3	44.9	2.8	5.6	27.5	83.4	25.4	108.1	1.7	30.6
1,000 TO 2,499 EMPLOYEES . . . . .	5	5.6	58.0	3.9	7.6	37.9	128.6	74.2	204.8	3.8	44.4
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	415	1.2	10.8	1.0	1.7	7.0	21.6	9.5	31.1	1.0	7.6
3546-- POWER DRIVEN HANDTOOLS											
ESTABLISHMENTS, TOTAL. . . . .	88	23.1	202.3	16.9	32.9	124.2	434.5	302.7	730.5	20.3	199.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	4	(2)	.1	(2)	(2)	(2)	.2	.2	.4	-	.1
5 TO 9 EMPLOYEES . . . . .	9	.1	.7	(2)	.1	.3	2.2	1.1	3.5	(2)	1.2
10 TO 19 EMPLOYEES . . . . .	10	.1	1.4	.1	.2	.9	3.1	2.0	5.2	.1	.7
20 TO 49 EMPLOYEES . . . . .	18	.5	3.8	.3	.6	2.1	7.2	4.6	11.7	.3	2.5
50 TO 99 EMPLOYEES . . . . .	14	1.0	10.2	.6	1.3	5.3	26.4	9.1	33.6	.9	11.2
100 TO 249 EMPLOYEES . . . . .	9	1.6	12.9	1.1	2.2	7.6	28.0	14.8	44.6	1.2	12.9
250 TO 499 EMPLOYEES . . . . .	10	3.9	34.9	3.0	6.1	22.1	102.2	51.4	148.6	4.3	46.1
500 TO 999 EMPLOYEES . . . . .	8	5.3	44.1	3.9	7.3	24.1	99.3	96.8	195.5	6.3	46.2
1,000 TO 2,499 EMPLOYEES . . . . .	5	10.5	94.5	7.8	15.0	61.9	165.8	122.6	287.4	7.4	85.0
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3547-- ROLLING MILL MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	47	10.4	115.2	7.2	14.2	68.7	206.4	129.0	327.8	6.3	81.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES . . . . .	2	.1	1.2	.1	.1	.5	2.4	2.6	5.0	.2	.7
10 TO 19 EMPLOYEES . . . . .	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES . . . . .	15	.5	5.2	.4	.7	3.4	8.9	5.0	13.9	.3	2.5
50 TO 99 EMPLOYEES . . . . .	9	.6	6.3	.4	.7	3.2	13.0	9.4	18.5	.4	7.4
100 TO 249 EMPLOYEES . . . . .	4	1.7	16.8	1.3	2.4	10.9	33.0	19.5	52.4	.8	9.1
250 TO 499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	5	7.5	85.8	5.1	10.3	50.6	149.0	92.5	237.9	4.5	61.4
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3549-- METALWORKING MACHINERY, NEC											
ESTABLISHMENTS, TOTAL. . . . . E1	394	13.6	131.6	9.2	18.3	77.7	268.3	165.6	427.8	12.3	107.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	136	.3	2.2	.2	.4	1.4	5.7	3.7	9.4	.4	2.7
5 TO 9 EMPLOYEES . . . . . E7	63	.4	3.7	.3	.6	2.4	6.8	4.8	11.6	.4	2.8
10 TO 19 EMPLOYEES . . . . . E1	61	.9	7.9	.6	1.3	5.2	14.6	9.4	23.7	.7	4.8
20 TO 49 EMPLOYEES . . . . .	69	2.2	22.8	1.6	3.3	14.9	42.8	24.2	66.0	1.6	11.4
50 TO 99 EMPLOYEES . . . . . E1	33	2.4	24.1	1.5	3.0	13.2	43.8	29.5	72.8	2.6	15.3
100 TO 249 EMPLOYEES . . . . . E1	19	2.8	26.9	1.8	3.5	14.7	61.8	36.9	97.5	1.6	23.2
250 TO 499 EMPLOYEES . . . . .	12	4.7	44.2	3.1	6.2	26.0	89.9	54.5	141.5	4.9	46.4
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	156	.5	3.8	.4	.6	2.4	9.0	6.2	15.1	.6	4.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.  
(Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3541	MACHINE TOOLS, METAL-CUTTING TYPES										
	ENTIRE INDUSTRY . . . . .	894	52.5	573.8	33.4	68.2	325.9	901.7	536.3	1 418.1	35.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	771	34.9	379.3	22.3	45.9	219.8	608.6	385.1	968.9	19.0
35411	BORING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	31	2.4	27.6	1.6	3.2	15.7	40.1	20.8	56.9	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	9	.1	1.4	.1	.2	1.0	3.9	1.0	4.7	.3
35412	DRILLING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	43	2.9	30.1	1.9	4.1	18.0	55.6	39.2	94.7	.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	22	1.0	11.4	.6	1.3	5.7	21.3	18.8	42.0	.2
35413	GEAR CUTTING AND FINISHING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	10	3.4	38.2	2.3	4.5	23.1	59.4	17.3	78.8	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	5	.4	3.8	.2	.4	2.3	5.2	2.4	8.0	.5
35414	GRINDING AND POLISHING MACHINES, EXC. GEAR TOOTH (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	106	11.3	118.0	6.5	12.6	57.5	152.1	87.9	234.6	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	69	2.9	27.6	1.9	4.2	16.8	38.8	21.7	59.5	.9
35415	LATHES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	51	12.9	136.8	8.3	16.8	80.2	221.5	134.0	355.0	7.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	1.4	14.7	.9	1.8	8.6	22.0	12.9	33.2	.5
35416	MILLING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	40	3.4	38.3	2.1	4.5	22.9	60.0	33.8	95.3	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	13	.6	5.8	.4	.8	3.8	8.4	6.5	14.7	.2
35418	OTHER MACHINE TOOLS INCL. HOME WORKSHOP, LAB., ETC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	109	10.2	125.5	6.5	14.2	72.0	211.3	144.1	340.6	9.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	77	4.4	54.7	3.1	7.0	35.7	95.0	75.3	163.7	2.4
35419	PARTS FOR METAL-CUTTING MACH. TOOLS AND REBUILT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	56	2.7	28.2	1.9	3.8	17.0	45.6	31.3	80.2	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	24	.7	7.3	.5	1.1	4.7	16.4	16.0	31.3	.3

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3542	MACHINE TOOLS, METAL-FORMING TYPES										
	ENTIRE INDUSTRY . . . . .	383	24.1	265.4	16.6	34.7	163.8	417.7	285.3	693.6	17.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	317	19.2	212.2	13.4	28.2	133.1	339.1	231.9	560.9	15.6
35421	PUNCHING, SHEARING, BENDING, FORMING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	79	6.4	67.3	4.2	9.0	40.5	129.5	68.1	215.6	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	45	2.5	25.5	1.7	3.5	15.4	46.0	27.9	74.7	1.7
35422	PRESSES, INCLUDING FORGING PRESSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	37	8.4	93.2	5.8	11.8	56.9	122.8	104.9	226.5	5.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	3.7	38.8	2.6	5.0	23.2	52.7	44.4	96.5	3.8
35423	OTHER METAL-FORMING MACHINE TOOLS, INCL. FORGING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	59	4.7	54.0	3.2	6.9	32.4	87.7	63.1	147.8	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	33	1.8	20.0	1.2	2.8	13.8	33.6	27.1	57.7	1.7
35424	METAL-FORMING MACH. TOOL PARTS AND REBUILT MACH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	57	3.6	40.9	2.6	5.4	27.5	61.9	39.0	102.4	2.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	33	1.1	12.8	.9	1.8	8.4	22.8	11.4	33.6	1.4
3544	SPECIAL DIES, TOOLS, JIGS, AND FIXTURES										
	ENTIRE INDUSTRY . . . . .	6 616	98.1	1 116.3	80.7	173.9	846.2	1 799.4	648.2	2 426.7	97.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6 264	85.0	970.4	70.4	151.9	737.9	1 578.8	557.8	2 117.9	89.9
35441	SPECIAL DIES, TOOLS, DIE SETS, JIGS, FIXTURES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	1 786	50.5	613.2	40.5	89.1	460.9	945.3	343.8	1 278.0	32.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 482	39.5	484.0	31.8	70.6	366.0	749.9	263.4	1 005.3	25.9
35442	INDUSTRIAL MOLDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	816	22.5	253.3	18.7	41.4	197.2	410.3	149.7	552.8	22.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	731	19.8	224.5	16.5	36.5	175.5	369.5	128.8	492.1	19.6
3545	MACHINE TOOL ACCESSORIES										
	ENTIRE INDUSTRY . . . . .	1 232	47.0	458.9	33.9	67.4	292.5	879.9	380.2	1 249.0	30.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 144	36.7	360.2	27.0	53.7	236.6	668.5	253.3	915.7	20.8
35451	SMALL CUTTING TOOLS FOR METALWORKING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	445	31.3	308.2	22.6	45.0	201.0	587.0	270.9	852.1	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	370	22.6	222.9	16.9	34.1	150.3	418.1	161.9	576.0	12.0
35452	PRECISION MEASURING TOOLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	54	3.8	37.2	2.6	5.2	23.3	67.2	21.3	87.6	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	47	3.6	35.4	2.5	4.9	22.0	63.9	20.4	83.4	1.5
35453	OTHER ATTACHMENTS, ACCESSORIES FOR MACHINE TOOLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	108	7.1	72.6	5.0	10.3	44.1	146.3	53.5	196.8	6.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	76	3.8	39.8	2.6	5.4	23.9	71.8	25.1	95.7	1.7
3546	POWER DRIVEN HANDTOOLS										
	ENTIRE INDUSTRY . . . . .	88	23.1	202.3	16.9	32.9	124.2	434.5	302.7	730.5	20.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	75	15.5	135.4	10.9	21.2	78.9	279.5	187.7	461.4	11.3
35461	POWER DRIVEN HANDTOOLS, ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	41	14.4	119.1	10.9	20.9	74.1	247.7	230.5	481.0	14.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	30	8.6	68.9	6.1	11.7	39.1	128.8	136.1	266.0	8.3
35462	POWER DRIVEN HANDTOOLS, PNEUMATIC AND POWDER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	39	8.0	77.8	5.6	11.1	46.9	172.2	61.4	227.3	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	32	5.5	55.3	3.9	7.9	34.2	131.9	34.9	160.5	2.6
3547	ROLLING MILL MACHINERY										
	ENTIRE INDUSTRY . . . . .	47	10.4	115.2	7.2	14.2	68.7	206.4	129.0	327.8	6.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	32	4.0	42.9	2.8	5.7	24.2	88.5	61.6	145.4	2.0
35471	HOT ROLLING MILL MACHINERY, EXC. TUBE ROLLING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	12	5.6	64.1	3.7	7.3	35.8	109.7	78.7	185.0	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35472	COLD ROLLING MILL MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	1.6	17.5	1.3	2.5	12.0	39.6	18.4	58.4	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35473	OTHER ROLLING MILL MACH., INCL. TUBE MILL MACH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	3.1	32.6	2.2	4.3	20.4	54.9	30.2	80.6	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	.9	9.3	.6	1.2	5.3	17.6	12.4	30.0	.4
3549	METALWORKING MACHINERY, NEC										
	ENTIRE INDUSTRY . . . . .	394	13.6	131.6	9.2	18.3	77.7	268.3	165.6	427.8	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	349	10.4	99.3	7.1	13.7	57.9	208.7	130.2	335.4	9.3
35493	WELDING AND CUTTING APPARATUS, EXC. ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	29	2.8	25.2	2.0	3.9	15.7	55.2	31.2	84.9	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	22	2.5	22.8	1.9	3.6	14.3	50.0	26.9	75.6	1.6
35494	AUTOMOTIVE MAINTENANCE EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	34	3.6	33.2	2.2	4.4	17.2	84.3	48.2	130.3	4.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	28	2.3	20.7	1.5	2.8	10.8	56.9	32.4	87.9	2.5
35495	OTHER METALWORKING MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	94	5.1	55.4	3.4	7.2	32.7	93.7	64.9	157.4	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	67	3.5	37.1	2.2	4.7	20.4	63.3	46.5	110.0	2.2

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3541	Machine tools, metal-cutting types.....1972..	1,418.1	1,135.5	188.9	93.7	86	1,258.5	1,135.5	123.0	90
	.....1967..	2,127.2	1,715.7	269.7	141.8	86	1,907.8	1,715.7	192.3	90
3542	Machine tools, metal-forming types.....1972..	693.6	580.9	73.1	39.6	89	670.1	580.9	89.2	87
	.....1967..	714.0	568.4	99.5	46.1	85	676.6	568.4	108.1	84
3544	Special dies, tools, jigs, and fixtures...1972..	2,426.7	2,105.7	129.2	191.8	94	2,713.5	2,105.7	607.8	78
	.....1967..	2,202.3	1,875.3	110.6	216.4	94	2,520.2	1,875.3	644.8	74
3545	Machine tool accessories.....1972..	1,249.0	1,008.2	164.7	76.1	86	1,151.4	1,008.2	143.2	88
	.....1967..	1,309.9	1,035.9	176.2	97.8	85	1,222.4	1,035.9	186.6	85
3546	Power-driven handtools.....1972..	730.5	570.9	127.3	32.3	82	622.9	570.9	52.0	92
3547	Rolling mill machinery.....1972..	327.8	212.4	74.1	41.3	74	247.9	212.4	35.5	86
3549	Metalworking machinery, n.e.c.....1972..	427.8	342.4	47.8	37.6	88	411.3	342.4	68.9	83
3548	Old SIC basis—Metalworking machinery, n.e.c.....1972..	1,486.1	1,126.1	248.8	111.2	82	1,282.1	1,126.1	156.0	88
	.....1967..	1,158.1	905.4	140.7	112.0	86	1,028.0	905.4	122.5	88

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Machine tools, metal- cutting types (SIC 3541)	Machine tools, metal- forming types (SIC 3542)	Special dies, tools, jigs, and fixtures (SIC 3544)	Machine tool accessories (SIC 3545)	Power- driven handtools (SIC 3546)	Rolling mill machinery (SIC 3547)	Metal- working machinery, n.e.c. (SIC 3549)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,418.1	693.6	2,426.7	1,249.0	730.5	327.8	427.8	(X)
3541-	Machine tools, metal-cutting types.....	1,258.5	1,135.5	11.6	13.0	25.0	3.4	(under 2)	4.8	(50-100)
35411	Boring machines.....	58.7	50.2	(under 2)	3.4	(under 2)	(under 2)	-	(under 2)	(over 2)
35412	Drilling machines.....	73.7	64.0	(under 2)	1.5	(under 2)	(under 2)	-	(under 2)	5.3
35413	Gear cutting and finishing machines.....	56.7	53.0	(under 2)	.1	(under 2)	-	-	-	(under 2)
35414	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines).....	168.6	143.9	3.4	1.9	4.9	(under 2)	-	(under 2)	14.0
35415	Lathes.....	197.6	191.2	(under 2)	.4	(under 2)	(under 2)	-	(under 2)	2.9
35416	Milling machines.....	86.6	80.9	(under 2)	1.0	.1	(under 2)	-	(under 2)	3.4
35418	Other machine tools, including home workshops, lab, etc.....	303.1	267.3	4.2	3.2	8.0	(2-5)	(under 2)	(under 2)	16.4
35419	Parts for metal-cutting type machine tools, sold separately, and rebuilt machine tools.....	242.1	215.1	1.4	1.4	8.2	-	-	(under 2)	(10-20)
35410	Machine tools, metal-cutting types, n.s.k.....	71.4	69.9	(under 2)	-	-	-	-	(under 2)	(under 2)
3542-	Machine tools, metal-forming types.....	670.1	17.8	580.9	6.3	3.8	.1	14.7	1.6	44.9
35421	Punching, shearing, bending, and forming machine..	153.4	4.5	131.8	2.5	(under 2)	(under 2)	(2-5)	(under 2)	9.5
35422	Presses, including forging presses.....	183.2	(under 2)	160.4	.6	(under 2)	(under 2)	(2-5)	(under 2)	15.1
35423	Other metal-forming machine tools, including forging machines.....	149.0	3.6	132.4	.7	(under 2)	(under 2)	(under 2)	(under 2)	(over 2)
35424	Parts for metal-forming machine tools and rebuilt metal-forming machinery.....	161.5	7.3	134.0	2.5	(under 2)	(under 2)	(5-10)	.1	10.8
35420	Machine tools, metal-forming types, n.s.k.....	23.0	(under 2)	22.3	-	-	-	-	-	(under 2)
3544-	Special dies, tools, jigs, and fixtures.....	2,713.5	9.2	(over 2)	2,105.7	15.8	(under 2)	(under 2)	(over 2)	544.9
35441	Special dies, tools, jigs and fixtures.....	1,520.1	8.4	(over 2)	1,059.0	15.6	(under 2)	(under 2)	6.9	399.8
35442	Industrial molds.....	640.3	.8	.2	498.5	.2	-	(under 2)	(under 2)	(100-200)
35440	Special dies, tools, jigs, and fixtures, n.s.k....	553.1	-	(under 2)	548.2	-	-	-	-	(over 2)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Machine tools, metal-cutting types (SIC 3541)	Machine tools, metal-forming types (SIC 3542)	Special dies, tools, jigs, and fixtures (SIC 3544)	Machine tool accessories (SIC 3545)	Power-driven handtools (SIC 3546)	Rolling mill machinery (SIC 3547)	Metal-working machinery, n.e.c. (SIC 3549)	Other industries
	Shipments and miscellaneous receipts--Con.									
3545-	Machine tool accessories.....	1,151.4	(over 2)	(under 2)	(over 2)	1,008.2	1.4	(under 2)	(under 2)	39.2
35451	Reamers (all types, but excluding gun reamers).....	738.0	38.3	(under 2)	2.7	674.5	(under 2)	(under 2)	(under 2)	21.5
35452	Precision measuring tools.....	94.7	8.7	(Z)	1.0	80.7	-	-	-	4.3
35453	Other attachments and accessories for machine tools and metalworking machinery.....	218.8	(over 2)	(under 2)	(over 2)	155.6	(under 2)	-	.6	13.7
35450	Machine tool accessories, n.s.k.....	99.9	(under 2)	-	(under 2)	97.4	-	-	-	2.3
3546-	Power-driven handtools.....	622.9	1.1	1.9	(under 2)	(over 2)	570.9	-	.6	44.4
35461	Power-driven handtools, electric.....	386.9	(under 2)	(under 2)	(under 2)	(under 2)	376.5	-	(under 2)	7.1
35462	Power-driven handtools, pneumatic and power actuated.....	217.9	(under 2)	-	(Z)	(over 2)	190.8	-	(under 2)	23.3
35460	Power-driven handtools, n.s.k.....	18.1	(under 2)	(under 2)	-	-	3.6	-	-	14.0
3547-	Rolling mill machinery.....	247.9	(under 2)	7.9	(under 2)	4.1	-	212.4	1.3	21.5
35471	Hot rolling mill machinery, except tube rolling.....	134.7	(under 2)	(under 2)	(under 2)	-	-	118.2	-	15.1
35472	Cold rolling mill machinery.....	52.4	-	(2-5)	(under 2)	(under 2)	-	44.3	(under 2)	2.2
35473	Other rolling mill machinery, including tube mill machinery.....	55.6	-	(2-5)	.4	(2-5)	-	48.2	(under 2)	1.5
35470	Rolling mill machinery, n.s.k.....	5.2	-	(under 2)	-	(under 2)	-	1.7	-	2.7
3549-	Metalworking machinery, n.e.c.....	411.3	1.0	4.0	8.7	(under 2)	(under 2)	(over 2)	342.4	41.2
35493	Welding and cutting apparatus, except electric gas cutting equipment.....	93.7	(under 2)	-	(under 2)	(under 2)	-	-	72.4	21.0
35494	Automotive maintenance equipment.....	111.1	(under 2)	-	(under 2)	-	(under 2)	-	97.8	11.4
35495	Other metalworking machinery.....	154.5	(under 2)	4.0	7.7	(under 2)	(under 2)	12.1	122.4	7.5
35490	Other metalworking machinery, n.s.k.....	52.0	-	-	(under 2)	-	(under 2)	(under 2)	49.8	1.4
	Other product shipments by 4-digit product group:									
2499	Wood products, n.e.c.....	(X)	-	-	-	(over 2)	-	-	-	(X)
2519	Household furniture, n.e.c.....	(X)	(over 2)	-	-	-	-	-	-	(X)
2899	Chemical preparations, n.e.c.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3079	Miscellaneous plastics products.....	(X)	(over 2)	(under 2)	5.2	-	-	-	(under 2)	(X)
3291	Abrasive products.....	(X)	(over 2)	1.6	(under 2)	3.0	-	-	-	(X)
3321	Gray iron foundries.....	(X)	5.7	-	(over 2)	(under 2)	-	(10-20)	(under 2)	(X)
3325	Steel foundries, n.e.c.....	(X)	-	-	-	-	-	(10-20)	-	(X)
3399	Primary metal products, n.e.c.....	(X)	-	-	(under 2)	(20-50)	-	-	(under 2)	(X)
3423	Hand and edge tools, n.e.c.....	(X)	(under 2)	(over 2)	(under 2)	10.8	(over 2)	-	(under 2)	(X)
3425	Handsaws and saw blades.....	(X)	(2-5)	-	(under 2)	(5-10)	17.4	-	-	(X)
3429	Hardware, n.e.c.....	(X)	(under 2)	-	.5	(2-5)	-	-	(under 2)	(X)
3441	Fabricated structural metal.....	(X)	(over 2)	-	(under 2)	-	-	-	-	(X)
3462	Iron and steel forgings.....	(X)	-	-	(under 2)	(under 2)	-	(over 2)	-	(X)
3465	Automotive stampings.....	(X)	-	-	6.3	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(under 2)	-	10.0	(under 2)	-	-	(under 2)	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	-	(over 2)	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	-	(2-5)	-	(under 2)	(under 2)	(under 2)	(under 2)	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	(under 2)	(under 2)	(5-10)	-	(under 2)	(under 2)	(X)
3523	Farm machinery and equipment.....	(X)	-	-	-	.1	(under 2)	-	(over 2)	(X)
3524	Lawn and garden equipment.....	(X)	-	-	-	39.4	-	-	(under 2)	(X)
3532	Mining machinery.....	(X)	-	(under 2)	-	9.7	(over 2)	(under 2)	(under 2)	(X)
3536	Holsts, cranes, and monorails.....	(X)	(under 2)	-	(under 2)	-	(5-10)	-	(under 2)	(X)
3551	Food products machinery.....	(X)	(over 2)	-	(under 2)	.2	-	(under 2)	(under 2)	(X)
3553	Woodworking machinery.....	(X)	15.2	(2-5)	(under 2)	(under 2)	4.5	-	-	(X)
3554	Paper industries machinery.....	(X)	-	(under 2)	(under 2)	(over 2)	-	-	(under 2)	(X)
3559	Special industry machinery, n.e.c.....	(X)	11.7	(over 2)	9.4	(under 2)	-	(under 2)	(under 2)	(X)
3561	Pumps and pumping equipment.....	(X)	(2-5)	2.3	-	1.7	(under 2)	(under 2)	-	(X)
3566	Speed changers, drives, and gears.....	(X)	-	-	(under 2)	(under 2)	-	(over 2)	-	(X)
3568	Power transmission equipment, n.e.c.....	(X)	(under 2)	(under 2)	-	(under 2)	(over 2)	(under 2)	-	(X)
3569	General industrial machinery, n.e.c.....	(X)	(under 2)	(2-5)	.9	(under 2)	(over 2)	-	.8	(X)
3586	Measuring and dispensing pumps.....	(X)	-	-	-	-	(5-10)	-	(under 2)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	11.7	(over 2)	9.4	(under 2)	-	(under 2)	(under 2)	(X)
3623	Welding apparatus, electric.....	(X)	(under 2)	(under 2)	(over 2)	-	-	(under 2)	(under 2)	(X)
3634	Electric housewares and fans.....	(X)	-	-	-	3.5	-	-	-	(X)
3711	Motor vehicles and car bodies.....	(X)	-	(under 2)	(over 2)	-	-	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(under 2)	(over 2)	(over 2)	(under 2)	-	(under 2)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	(under 2)	-	(over 2)	(under 2)	(over 2)	-	-	(X)
3823	Process control instruments.....	(X)	-	-	(under 2)	(under 2)	-	-	(2-5)	(X)
3829	Measuring and controlling devices, n.e.c.....	(X)	-	-	(under 2)	.6	-	-	(2-5)	(X)
	Miscellaneous receipts.....	(X)	93.7	39.6	191.8	76.1	32.3	41.3	37.6	(X)
93000 00	Contract work.....	(X)	13.1	7.7	65.5	9.5	.3	8.6	5.8	(X)
93000 35	Receipts for precision machining on materials owned by others.....	(X)	21.1	2.5	57.8	7.3	-	4.0	5.6	(X)
99980 13	Sales of scraps and refuse.....	(X)	.6	1.0	1.5	2.1	.4	.3	1.2	(X)
99980 31	Receipts for installation.....	(X)	3.7	.1	1.1	-	-	.3	.3	(X)
99980 41	Receipts for research and developmental work.....	(X)	.9	.2	3.1	.3	(Z)	-	.3	(X)
99980 61	Receipts for repair work.....	(X)	8.0	12.5	16.3	6.9	1.5	1.1	2.0	(X)
99980 98	Other miscellaneous receipts.....	(X)	8.1	3.7	10.1	2.2	.8	7.8	2.1	(X)
99989 00	Resales.....	(X)	35.0	11.9	36.4	47.8	29.3	19.2	20.5	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, end miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3541-	3423 Hand and edge tools, n.e.c.....	(over 2)	3544-	3469 Metal stampings, n.e.c.....	39.1
	3429 Hardware, n.e.c.....	(over 2)		3559 Special industry machinery, n.e.c.....	12.0
	3469 Metal stampings, n.e.c.....	(over 2)		3569 General industrial machinery, n.e.c.....	2.4
	3553 Woodworking machinery.....	3.6		3599 Machinery, except electrical, n.e.c.....	21.1
	3559 Special industry machinery, n.e.c.....	(10-20)		3621 Motors and generators.....	(2-5)
	3599 Machinery, except electrical, n.e.c.....	4.1		3643 Current-carrying wiring devices.....	(over 2)
	3621 Motors and generators.....	(2-5)		3647 Vehicular lighting equipment.....	(over 2)
3542-	3411 Metal cans.....	(over 2)		3678 Electronic connectors.....	(over 2)
	3431 Metal sanitary ware.....	(over 2)		3711 Motor vehicles and car bodies.....	(over 2)
	3452 Bolts, nuts, rivets, and washers.....	(5-10)		3714 Motor vehicle parts and accessories.....	19.9
	3559 Special industry machinery, n.e.c.....	9.6	3545-	3291 Abrasive products.....	2.8
	3564 Blowers and fans.....	(over 2)		3423 Hand and edge tools, n.e.c.....	6.3
	3623 Welding apparatus, electric.....	5.1		3551 Food products machinery.....	(over 2)
3544-	3069 Fabricated rubber products, n.e.c.....	3.8		3822 Environmental controls.....	(over 2)
	3079 Miscellaneous plastics products.....	75.0	3546-	3315 Steel wire and related products.....	25.1
	3321 Gray iron foundries.....	2.0		3452 Bolts, nuts, rivets, and washers.....	6.0
	3324 Steel investment foundries.....	2.3		3496 Miscellaneous fabricated wire products.....	(over 2)
	3361 Aluminum foundries.....	22.0	3547-	3324 Steel investment foundries.....	(2-5)
	3369 Nonferrous foundries, n.e.c.....	11.2		3325 Steel foundries, n.e.c.....	(over 2)
	3423 Hand and edge tools, n.e.c.....	2.2		3623 Welding apparatus, electric.....	(over 2)
	3429 Hardware, n.e.c.....	(over 2)	3549-	3534 Elevators and moving stairways.....	(over 2)
	3449 Miscellaneous metalwork.....	(over 2)		3559 Special industry machinery, n.e.c.....	(5-10)
	3462 Iron and steel forgings.....	7.6		3569 General industrial machinery, n.e.c.....	(2-5)
	3463 Nonferrous forgings.....	6.5		3623 Welding apparatus, electric.....	(10-20)
	3465 Automotive stampings.....	187.2			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3541- --	MACHINE TOOLS, METAL-CUTTING TYPES, TOTAL.....	.....	(X)	1,258.5	(X)	1,907.8
	Boring Machines: <sup>1</sup>					
35411 00	As reported in the census of manufactures.....	.....	(X)	58.7	(X)	127.8
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	.5	54.1	1.8	117.8
	Drilling Machines: <sup>1</sup>					
35412 00	As reported in the census of manufactures.....	.....	(X)	73.7	(X)	128.5
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	36.2	65.8	48.7	122.8
	Gear cutting and finishing machines: <sup>1</sup>					
35413 00	As reported in the census of manufactures.....	.....	(X)	56.7	(X)	67.1
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	.8	50.3	1.6	63.9
	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines): <sup>1</sup>					
35414 00	As reported in the census of manufactures.....	.....	(X)	168.6	(X)	270.2
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	98.0	151.0	91.4	247.8
	Lathes: <sup>1</sup>					
35415 00	As reported in the census of manufactures.....	.....	(X)	197.6	(X)	360.5
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	12.3	203.2	27.6	334.0
	Milling Machines: <sup>1</sup>					
35416 00	As reported in the census of manufactures.....	.....	(X)	86.6	(X)	258.2
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units...	19.0	81.7	24.0	234.3

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3541- --	MACHINE TOOLS, METAL-CUTTING TYPES--Continued					
35418 --	Other Machine Tools (Including Those Primarily Designed for Home Workshops, Laboratories, Etc.).....		(X)	303.1	(X)	371.9
	Machine tools designed primarily for home workshops, laboratories, garages, etc. (metalworking and primarily metalworking only.):					
35418 11	Drilling machines.....	1,000 units....	(NA)	2.3	(NA)	2.2
35418 31	Grinding and polishing machines, including crankshaft regrounding and valve grinding machines.....	...do.....	1,498.4	10.1	(NA)	12.5
35418 51	Lathes.....	...do.....	1,301.1	4.4	(NA)	3.0
35418 71	Saws and sawing machines.....	...do.....	(NA)	17.7	(NA)	10.4
35418 90	Other metal-cutting-type machine tools (except those designed primarily for home workshops, laboratories, etc.), including broaching machines, planers, shapers (except gear shapers and slotters), sawing and cutoff machines, tapping machines, threading machines and multi-function N/C machines, n.e.c., etc. As reported in the census of manufactures.....		(X)	236.2	(X)	274.3
	As reported in Current Industrial Reports series MQ-35W.....	1,000 units....	34.5	251.9	41.0	252.6
35418 91	Other metalworking (or primarily metalworking) types, including automotive cylinder-boring machines.....	...do.....	(NA)	28.1	(NA)	56.0
35418 00	Other machine tools (including those designed for home workshops, laboratories, etc.), n.e.c., n.s.k.....		(X)	4.3	(X)	13.6
35419 --	Parts for Metal-Cutting-Type Machine Tools, Sold Separately, and Rebuilt Machine Tools.....		(X)	242.1	(X)	241.0
35419 11	Parts for metal-cutting machine tools (sold separately).....		(X)	202.3	(X)	218.4
35419 41	Rebuilt metal-cutting-type machine tools.....		(X)	36.4	(X)	16.9
35419 00	Parts for metal-cutting-type machine tools, sold separately, and rebuilt machine tools, n.s.k.....		(X)	3.4	(X)	5.7
35410 00	Machine tools, metal-cutting types, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	49.3	(X)	70.3
35410 02	Machine tools, metal-cutting types, n.s.k. for establishments with less than 10 employees. (See note.).....		(X)	22.1	(X)	12.2
Product				Total product shipments including interplant transfers (million dollars)		
				1972	1967	
3542- --	MACHINE TOOLS, METAL-FORMING TYPES, TOTAL.....			670.1	676.6	
	Punching, shearing, bending, and forming machines: <sup>1</sup>					
35421 10	As reported in the census of manufactures.....			153.4	130.9	
35421 20	As reported in Current Industrial Reports series MQ-35W.....			129.8	114.4	
	Presses, including forging presses: <sup>1</sup>					
35422 00	As reported in the census of manufactures.....			183.2	261.3	
	As reported in Current Industrial Reports series MQ-35W.....			166.7	240.1	
35423 --	Other Metal-Forming Machine Tools, Including Forging Machines.....			149.0	122.9	
35423 10, 20, 30, 50 and 90	As reported in the census of manufactures <sup>1</sup> .....			134.9	<sup>2</sup> 102.3	
	As reported in Current Industrial Reports series MQ-35W.....			114.3	<sup>3</sup> 78.2	
35423 40	Die-casting machinery.....			14.1	20.6	
35424 --	Parts for Metal-Forming Machine Tools and Rebuilt Metal-Forming Machinery.....			161.5	125.7	
35424 11	Parts for metal-forming machine tools, except parts and attachments for electric and pneumatic powerdriven handtools (sold separately).....			147.9	120.8	
35424 75	Rebuilt metal-forming machine tools.....			13.6	5.0	
35420 00	Machine tools, metal-forming types, n.s.k., for establishments with 10 employees or more. (See note.)..			16.7	30.7	
35420 02	Machine tools, metal-forming types, n.s.k., for establishments with less than 10 employees. (See note.)			6.3	4.9	

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3544- --	SPECIAL DIES, TOOLS, JIGS, AND FIXTURES, TOTAL.....		(X)	2,713.5	(X)	2,520.2
35441 --	Special Dies, Tools, Jigs, and Fixtures.....		(X)	1,520.1	(X)	1,719.8
	Jigs and fixtures, all types:					
	Gaging and checking types:					
35441 13	Under 1,000-pounds weight.....	Million lb....	(NA)	80.4	(NA)	642.3
35441 15	1,000-pounds weight and over.....	..do.....	(NA)	25.6		
	All other jigs and fixtures (holding, positioning, layout, assembly, etc.):					
35441 17	Under 1,000-pounds weight.....	..do.....	(NA)	124.9		
35441 18	1,000-pounds weight and over.....	..do.....	(NA)	61.8		
35441 19	Standard catalog components and parts for jigs and fixtures, including drill bushings.....		(X)	25.8	(X)	31.0
	Dies:					
35441 21	Press brake dies.....	Million lb....	(NA)	148.9	(NA)	192.2
	Forming and drawing dies:					
35441 22	500-pounds weight and under.....	..do.....	(NA)	44.9		
35441 24	501- to 3,000-pounds weight.....	..do.....	(NA)	69.9		
35441 26	Over 3,000-pounds weight.....	..do.....	59.8	83.8		
	Stamping dies, including lamination and blanking dies:					
	Progressive-type dies:					
35441 27	High-speed steel.....		(X)	98.5	(X)	185.6
35441 28	Carbide.....		(X)	30.2		
35441 29	All other stamping-type dies (punch, trim, notch, perforate, etc.).....		(X)	204.4	(X)	189.1
	Forging dies, including cold forging and heading:					
35441 33	Open-die type.....		(X)	7.5	(X)	22.2
35441 35	Closed-die type.....		(X)	30.9	(X)	25.7
	Extrusion, wiredrawing, and straightening dies:					
35441 43	High-speed steel.....		(X)	7.5	(X)	20.5
35441 45	Carbide.....		(X)	12.0		
35441 49	All other dies.....		(X)	97.7	(X)	44.1
	Standard and special components and parts for dies:					
35441 73	Die sets.....		(X)	29.2	(X)	39.6
35441 79	Other, including standard punches, springs, etc.....		(X)	51.8	(X)	20.9
35441 91	Other specially designed tooling, prototypes, and models.....		(X)	148.5	(X)	306.5
35441 00	Special dies, tools, jigs, and fixtures, n.s.k.....		(X)	135.9		
35442 --	Industrial Molds <sup>1</sup> .....		(X)	640.3	(X)	446.2
	Industrial molds made of metal:					
	For casting metals:					
35442 11	Diecasting dies (molds).....		(X)	93.6	(X)	99.3
35442 13	Foundry molds, except ingot molds.....		(X)	14.3	(X)	8.8
35442 33	For molding rubber products, including tire molds.....		(X)	48.5	(X)	40.8
	For molding plastics:					
35442 51	Injection molds.....		(X)	301.0	(X)	168.1
35442 55	Compression molds, including matched metal molds.....		(X)	33.7	(X)	25.5
35442 59	All other molds, including transfer, plunger, and rotational molds.....		(X)	21.3	(X)	18.2
35442 61	All other molds made of metal (including molds for glass and other materials) and mold bases.....		(X)	69.3	(X)	41.0
35442 63	Industrial molds, made of materials other than metal.....		(X)	13.8	(X)	10.3
35442 00	Industrial molds, n.s.k.....		(X)	44.8	(X)	34.4
35440 00	Special dies, tools, jigs, and fixtures, n.s.k., for establish- ments with 10 employees or more. (See note.).....		(X)	340.9	(X)	251.1
35440 02	Special dies, tools, jigs, and fixtures, n.s.k., for establish- ments with less than 10 employees. (See note.).....		(X)	212.2	(X)	103.1
Product					Total product shipments including interplant transfers (million dollars)	
					1972	1967
3545- --	MACHINE TOOL ACCESSORIES, TOTAL.....				1,151.4	1,222.4
35451 --	Small Cutting Tools for Machine Tools and Metalworking Machinery.....				738.0	770.9
	Broaches, excluding holders and burnishing bars:					
35451 13	High-speed steel.....				34.6	40.5
35451 15	Carbide, or special cast alloy, etc.....				4.3	8.6
	Twist drills, excluding combined drills, countersinks, and gun drills:					
35451 21	Steel drills, high-speed steel, taper shank and straight shank.....				97.9	104.8
35451 24	Carbide, solid and tipped (excluding tips and blanks sold separately and masonry drills).....				22.3	18.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3545- --	MACHINE TOOL ACCESSORIES--Continued		
35451 --	Small Cutting Tools for Machine Tools and Metalworking Machinery--Continued		
35451 25	Gun drills and gun reamers.....	7.2	5.4
35451 26	Combination drills and countersinks.....	4.3	4.5
35451 27	Countersinks, including port cutters, etc., but excluding combined drills and countersinks and pilots for interchangeable pilot types.....	5.6	4.2
35451 29	Counterbores, including spot facers, etc., but excluding pilots for interchangeable pilot types.....	9.6	10.9
	Reamers, all types, but excluding gun reamers:		
35451 31	Carbon steel, including blades sold separately.....	2.8	3.0
35451 33	High-speed steel, including blades sold separately.....	17.1	17.9
35451 36	Carbide, solid and tipped (excluding tips and blanks sold separately but including replaceable blades sold separately).....	11.5	7.8
	Hobs:		
35451 41	Unground.....	18.3	9.0
35451 45	Ground.....		7.8
35451 46	Gear shaper cutters.....	4.6	7.5
35451 48	Gear shaving cutters.....		4.6
	Milling cutters:		
	End mills (excluding all inserted blade types and shell mills but including solid or bonded blade type fishtail, die sinking, contour, router, tracer, hollow mills, etc.):		
35451 51	High-speed steel.....	40.2	43.0
35451 52	Carbide, solid and tipped (excluding tips and blanks sold separately).....	7.2	6.1
	Replaceable inserted blade cutters, all types:		
	Special blade cutters (other than standard throwaway insert type):		
35451 53	Cutters, complete, 4-inch diameter and under.....	2.4	24.7
35451 54	Cutters, complete, over 4-inch diameter.....	9.4	
35451 55	Standard throwaway insert type:		
35451 56	Cutters, complete, 4-inch diameter and under.....	1.6	
	Cutters, complete, over 4-inch diameter.....	1.9	
35451 58	Form relieved cutters, including high-speed steel and carbide (solid and tipped).....	6.6	11.3
35451 59	Slitting saws and screw slotting cutters, including high-speed steel and carbide (solid and tipped).....	6.9	8.5
	Milling cutters, not elsewhere classified:		
35451 61	High-speed steel.....	19.0	12.7
35451 63	Carbide, solid and tipped (excluding tips and blanks sold separately).....	5.4	6.9
	Single point tools: <sup>5</sup>		
35451 65	High-speed steel.....	8.7	13.8
35451 66	Carbide, including solid (except rough blanks) and tipped but excluding tips and blanks sold separately.....	30.7	26.8
35451 68	Other materials.....	8.1	14.5
35451 72	Circular form tools, including blanks.....	8.6	16.5
	Threading tools:		
	Taps, excluding taps in threading sets and screw plates and inserted chaser types:		
35451 76	Carbon steel.....	6.0	64.8
35451 77	High-speed steel.....	57.9	
35451 78	Carbide, solid and tipped.....		
35451 73	Dies, threading, including carbon steel, high-speed steel, and carbide but excluding dies in threading sets or screw plates, and inserted chaser types.....	8.7	8.5
35451 75	Chasers and blades for both taps or dies of inserted blade or chaser type, including high-speed steel and carbide (excluding the die heads and insert or collapsible tap bodies).....	17.4	17.0
35451 87	Thread rolling dies, including circular, flat, and planetary.....	14.7	11.0
35451 89	Other threading tools, including screw plates and threading sets.....	2.1	5.0
	Blanks, tips, and inserts: <sup>6</sup>		
35451 81	Blanks and tips, including carbide, cast alloy, and ceramic.....	24.9	56.0
	Inserts, standard throwaway types:		
	Carbide:		
35451 82	Utility ground.....	15.0	31.3
35451 83	Precision ground.....	56.7	38.6
35451 84	As molded (pressed to size).....	34.1	(NA)
35451 85	Other than carbide.....	4.3	1.8
	Special inserts, other than standard throwaway types, including on-end, prismatic, spiral, and special form or shaped blades, etc.:		
35451 86	Carbide.....	27.1	8.7
35451 88	Other than carbide.....	6.1	1.0
	Other types of cutting tools for machine tools, n.e.c., including rotary burrs, rotary files, and spade drills:		
35451 92	Carbon steel.....	2.2	6.4
35451 94	High-speed steel.....	13.3	26.3
35451 96	Carbide, solid and tipped (excluding tips and blanks sold separately).....	19.0	25.6
35451 00	Small cutting tools for machine tools and metalworking machinery, n.s.k.....	31.7	29.5

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972	1967			
3545- --	MACHINE TOOL ACCESSORIES--Continued					
35452 --	Precision Measuring Tools.....	94.7	130.8			
	Machinists' precision tools:					
35452 11	Comparators.....	6.2	16.1			
	Fixed size limit gages (American Gage Design type C58-61):					
35452 13	Fixture type.....	7.0	8.9			
35452 15	Thread type.....	4.3	9.4			
35452 17	Adjustable size limit gages.....	5.8	4.6			
35452 21	Gage blocks.....	2.1	4.0			
35452 61	Dial indicators.....	11.7	9.9			
35452 65	Micrometers and calipers.....	9.0	9.4			
35452 71	Pneumatic gages (manual and automatic).....	13.3	23.3			
35452 98	Other machinists' precision tools, including dividers.....	28.0	36.1			
35452 00	Precision measuring tools, n.s.k.....	7.3	9.2			
35453 --	Other Attachments and Accessories for Machine Tools and Metalworking Machinery.....	218.8	239.5			
	Toolholders:					
35453 31	Special tooling and attachments for screw and automatic machines (box tools, toolholders, turrets, rollers, etc.), except standard cutting bits and tools.....	13.8	20.6			
35453 12	Turning toolholders (mechanically clamping for inserts and bits), except box tools and screw machine toolholders.....	23.6	}			
35453 14	Boring bars and heads.....	7.0				
35453 17	Drilling, reaming, and tapping chucks.....	25.2				
35453 39	Other toolholders, including other chucks, thread chaser dieheads and tap bodies, drill heads, tool posts, turrets, sleeves, sockets, etc.....					
	Work holding devices:		}			
35453 45	Rotary tables and indexing work holders.....	7.9				
35453 59	Other work holding and positioning devices, including vises, mandrels, feeding fingers and collets, clamps, stops, face plates, spacers, etc.....	43.9				
35453 98	Other attachments and accessories for machine tools and metalworking machinery, n.e.c., (tracer and tapering attachments, safety devices, centers, dogs, work rests, chutes, etc.), except cutting tools, tool and work holders, jigs, fixtures, dies and molds.....	62.4				
35453 43	Lathe chucks.....	15.9	29.3			
35453 51	Toolroom specialties, including levels, angle plates, parallels, sine bars, V-blocks, flats, etc..	2.8	24.7			
35453 00	Other attachments and accessories for machine tools and metalworking machinery, n.s.k.....	16.3	11.5			
35450 00	Machine tool accessories, n.s.k., for establishments with 10 employees or more. (See note.).....	68.8	61.6			
35450 02	Machine tool accessories, n.s.k., for establishments with less than 10 employees. (See note.).....	31.1	19.6			
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3546- --	POWER-DRIVEN HANDTOOLS, TOTAL.....		(X)	622.9	(X)	435.7
35461 --	Power-Driven Handtools, Electric <sup>7</sup> .....		(X)	386.9	(X)	276.2
	Portable power-driven handtools which are controlled by hand; the positioning in operation need not be fixed, high cycle:					
	Drills:					
	Armature mounted primarily on sleeve bearings:					
35461 01	1/4-inch chuck size and under.....	1,000 units...	1,724.3	12.5	1,938.7	17.5
35461 03	5/16-inch up to and including 3/8-inch.....	...do.....	2,422.2	29.1	872.4	11.7
35461 04	1/2-inch and over.....	...do.....	426.4	6.7	453.0	10.1
	Armature mounted primarily on other than sleeve bearings:					
35461 05	1/4-inch chuck size and under.....	...do.....	335.6	6.1	485.0	6.9
35461 07	5/16-inch up to and including 3/8-inch.....	...do.....	1,003.7	16.5	423.5	6.9
35461 09	1/2-inch and over.....	...do.....	545.7	16.6	314.4	9.7
	Saws--circular:					
	Armature mounted primarily on sleeve bearings:					
35461 11	7-inch blade and under.....	...do.....	126.6	2.7	590.6	12.3
35461 13	Over 7-inch blade.....	...do.....	(NA)	23.4	91.4	2.6
	Armature mounted primarily on other than sleeve bearings:					
35461 15	7-inch blade and under.....	...do.....	} 1,556.2	37.6	{ (NA)	10.2
35461 16	7-inch to 8-inch blade.....	...do.....				
35461 17	Over 8-inch blade.....	...do.....	92.1	7.0	525.4	14.5
	Saws--jig, saber, reciprocating:					
35461 18	Armature mounted on ball bearings.....	...do.....	496.9	14.0	} 1,476.0	23.9
35461 19	Armature mounted on other than ball bearings.....	...do.....	2,753.1	35.0		
35461 22	Screwdrivers and nut-runners.....	...do.....	362.7	13.8	68.4	4.6
35461 24	Hammers.....	...do.....	88.6	9.9	68.9	10.1
35461 25	Impact wrenches.....	...do.....	159.2	10.5	86.1	6.9

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3546- --	POWER DRIVEN HANDTOOLS--Continued					
35461 --	Power-Driven Handtools, Electric--Continued					
	Portable power-driven handtools which are controlled by hand; the positioning in operation need not be fixed, high cycle--Con.					
35461 27	Planers and routers.....	1,000 units...	477.2	14.9	(NA)	7.6
35461 28	Shears and nibblers.....	...do.....	40.4	2.8	(NA)	20.5
35461 35	Other electric-powered handtools.....	...do.....	435.4	42.0		
	Grinders, polishers, and circular sanders, except bench grinders:					
35461 31	Angle grinders, polishers, and sanders.....	...do.....	639.0	20.7	375.9	12.5
35461 32	Straight grinders, including die grinders.....	...do.....	46.5	5.2		
	Sanders:					
35461 33	Belt.....	...do.....	466.7	11.2	851.5	19.6
35461 34	Oscillating, reciprocating, and vibrating.....	...do.....	386.8	8.0		
35461 36	Parts, attachments, and accessories for electric-powered handtools (sold separately), excluding saw blades, drills, screwdrivers, etc.....		(X)	40.7	(X)	49.2
35462 --	Power-Driven Handtools, Pneumatic and Powder Actuated <sup>7</sup> .....		(X)	217.9	(X)	159.5
	Pneumatic:					
35462 38	Drills, screwdrivers, and nut-runners.....	1,000 units...	161.4	26.3	186.8	27.9
35462 37	Percussion tools (such as runners, chippers, scalers, and holder-ons).....	...do.....	(NA)	11.2	85.1	13.3
35462 41	Impact wrenches.....	...do.....	(NA)	40.5	(NA)	24.4
35462 43	Grinders, polishers, and sanders.....	...do.....	(NA)	21.0	96.8	13.8
35462 49	Other pneumatic-powered handtools.....		(X)	46.2	(X)	29.2
35462 51	Parts, attachments, and accessories for pneumatic-powered handtools (sold separately), excluding drills, screwdrivers, etc.....					
35462 61	Powder-actuated handtools.....	1,000 units... }	(NA)	72.6	(X) (NA)	47.5 3.4
35460 00	Power-driven handtools, n.s.k., for establishments with 10 employees or more.....		(X)	18.1	(X)	18.9
	Product		Total product shipments including interplant transfers (million dollars)			
			1972		1967	
3547- --	ROLLING MILL MACHINERY, TOTAL.....				247.9	330.4
35471 --	Hot Rolling Mill Machinery, Except Tube Rolling <sup>7</sup> .....				134.7	159.6
35471 11	Blooming and slabbing mill machinery.....				( <sup>8</sup> )	61.0
35471 13	Plate rolling mill machinery, except tin plate machinery.....				13.1	15.2
35471 19	Other hot rolling mill machinery and equipment.....				<sup>8</sup> 121.6	83.4
35472 --	Cold Rolling Mill Machinery <sup>7</sup> .....				52.4	109.0
35472 21	Tandem roll mills.....				16.6	35.2
35472 23	Single stand toll mills.....					33.6
35472 29	Other cold rolling mill machinery and equipment.....				35.8	40.2
35473 --	Other Rolling Mill Machinery, Including Tube Mill Machinery <sup>7</sup> .....				55.6	57.3
35473 35	Tube mill machinery.....				15.5	12.6
35473 53	Other rolling mill machinery and equipment.....				40.1	44.7
35470 00	Rolling mill machinery, n.s.k.....				5.2	4.5
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3549- --	METALWORKING MACHINERY, N.E.C., TOTAL.....		(X)	411.3	(X)	261.7
35493 --	Welding and Cutting Apparatus, Except Electric.....		(X)	93.7	(X)	69.6
	Gas cutting equipment:					
35493 11	Torches.....	1,000 units...	(NA)	13.0	(NA)	29.4
35493 13	Machines and carriages, stationary and portable.....	...do.....	(NA)	7.0		
35493 25	Gas welding equipment, including welding torches.....		(X)	28.0	(X)	22.9
35493 27	Other nonelectric welding and cutting equipment, including gas air torches and tips, excluding pressure containers.....		(X)	26.2	(X)	13.4
35493 28	Spare parts, accessories, attachments, adapters, etc., n.e.c., sold separately but manufactured at same establishment.....		(X)	16.3		
35493 00	Welding and cutting apparatus, except electric, n.s.k.....		(X)	3.2	(X)	3.8

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3549- --	METALWORKING MACHINERY, N.E.C.--Continued					
35494 11	Automotive maintenance equipment (such as motor analyzers, wheel balancers, sparkplug cleaners, wheel spinners, frame straighteners, etc.).....		(X)	111.1	(X)	58.1
35495 --	Other Metalworking Machinery.....		(X)	154.5	(X)	86.2
	Assembly machines:					
35495 21	Rotary or dial.....	1,000 units...	(NA)	7.6	(X)	33.4
35495 23	In-line fixed pallet.....	...do.....	(NA)	7.9		
35495 25	In-line free pallet.....	...do.....	(NA)	7.7		
35495 27	Special purpose, n.e.c.....		(X)	30.6		
35495 41	Coil-handling equipment (conversion or straightening).....		(X)	27.8		
35495 98	Other metalworking machinery.....		(X)	49.5		
35495 10	Machines for weaving and other wirefabricating and wiredrawing machines and draw benches.....		(X)	19.0	(X)	52.8
35495 00	Other metalworking machinery, n.s.k.....		(X)	4.4	-	-
35490 00	Metalworking machinery, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	36.9	(X)	40.4
35490 02	Metalworking machinery, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	15.1	(X)	7.4

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available.

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series MQ-35W, Metalworking Machinery. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>Includes \$15.5 million identified in the 1967 census as "All other metal-forming machine tools." No comparable data were reported in 1972.

<sup>3</sup>Revised to exclude die-casting machines.

<sup>4</sup>Excludes dies, tools, jigs, fixtures, and molds produced and retained for use in the same establishment.

<sup>5</sup>Single point tools are one-piece single point or multiple point tool bits with integral cutting edges or with cutting tips brazed or bonded to holder or shank; with square, rectangular, round and other cross-section shanks; and with single and double end including flat form and dovetail tools used for turning, planing, boring, shaping, shaving, forming, threading, cutting off, etc.; excluding circular form tools, and all mechanical holding devices and replaceable inserts.

<sup>6</sup>Blanks are cast or formed material, unground, and requiring further processing to make a solid tool or cutting tip. (Does not include pressed to size, as molded ready-to-use inserts.) Tips are a finished or semifinished form of blank to be brazed, soldered, or otherwise bonded to a shank to form a cutting tool. Inserts are replaceable, mechanically-held cutting-edge components of cutting tools, either pressed to size, or ground on all surfaces (precision ground), or ground on top and bottom only (utility ground).

<sup>7</sup>The product class structure for this industry was revised, effective in 1972.

<sup>8</sup>For 1972, product code 35471 11, Blooming and slabbing machinery is combined with product code 35471 19, Other hot rolling mill machinery and equipment.

TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967

1972 product code	Product	Unit of measure	Quantity	Value ((\$1,000))
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1972	
3541- --	METAL-CUTTING MACHINE TOOLS, TOTAL.....	Number units.....	<sup>r</sup> 207,290	<sup>r</sup> 857,964
	Average value \$1,000 or over.....	...do.....	<sup>r</sup> 47,846	<sup>r</sup> 821,899
	Average value under \$1,000.....	...do.....	159,444	36,065
35411 --	Boring Machines, Except Machining Centers.....	...do.....	495	44,519
	Machines valued \$1,000 or more:			
	Horizontal boring, drilling, and milling machines:			
35411 11	Table type, except rotary.....	...do.....	(D)	(D)
35411 15	Floor type, including rail mounted.....	...do.....		
35411 19	All other horizontal boring, drilling, and milling machines.	...do.....		
	Precision boring machines:			
35411 52	Horizontal and vertical types.....	...do.....	<sup>r</sup> 247	<sup>r</sup> 18,320
35411 59	All other precision boring machines.....	...do.....		
35411 72	Jig boring machines, horizontal and vertical.....	...do.....		
35411 92	All other boring machines, except boring lathes.....	...do.....	(D)	(D)
35411 98	Machines valued under \$1,000.....	...do.....	-	-

See footnotes at end of table.

TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1972	
3541- --	METAL-CUTTING MACHINE TOOLS--Continued			
35412 --	Drilling Machines, Excluding Multi-Function n/c Machines.....	Number units.....	r 36,452	r 65,841
	Machines valued \$1,000 or more:			
	Sensitive drilling machines:			
35412 11	Bench type.....	..do.....	73	227
35412 15	Floor and pedestal type.....	..do.....	404	2,062
	Vertical (upright) drilling machines:			
35412 21	Plain upright.....	..do.....	126	755
35412 23	Heavy duty, manufacturing.....	..do.....		
35412 25	Indexing turret head, fixed column and table.....	..do.....		
35412 29	All other vertical (upright) drilling machines.....	..do.....	r 686	r 14,627
	Radial drilling machines:			
	Plain and universal:			
35412 31	Under 13-inch column.....	..do.....	r 131	r 1,820
35412 35	13-inch column and over.....	..do.....		
35412 49	All other radial.....	..do.....	r 140	r 2,233
	Multiple-spindle drilling machines (cluster of spindles driven from one central power unit):			
35412 52	Adjustable joint and fixed center types.....	..do.....	297	4,045
35412 55	Rail or saddle type.....	..do.....		
35412 61	Automatic drilling machines (combination, horizontal, vertical, and opposed heads).....	..do.....	r 412	r 14,604
35412 69	All other automatic multiple-spindle drilling machines.....	..do.....	54	4,096
	Deep hole drilling machines:			
35412 82	Horizontal, including gun type.....	..do.....	88	3,364
35412 8*	All other.....	..do.....	-	-
35412 9*	All other drilling machines.....	..do.....	r 314	r 9,160
35412 98	Machines valued under \$1,000.....	..do.....	33,727	8,848
35413 --	Gear-Cutting Machines.....	..do.....	765	50,253
	Machines valued \$1,000 or more:			
35413 12	Gear hobbbers, horizontal and vertical.....	..do.....		
35413 71	Gear tooth finishing machines.....	..do.....	336	16,467
35413 9*	All other gear cutting machines.....	..do.....	429	33,786
35413 98	Machines valued under \$1,000.....	..do.....	-	-
35414 --	Grinding and Polishing Machines, Except Gear-Tooth Grinding, Lapping, Polishing, and Buffing Machines.....	..do.....	r 99,016	r 151,027
	Machines valued \$1,000 or more:			
	External cylindrical grinding machines:			
35414 11	Plain, including angular wheel types.....	..do.....	160	9,370
35414 13	Universal.....	..do.....		
35414 15	Roll grinders.....	..do.....		
35414 16	Centerless grinders, including shoe type.....	..do.....	684	37,078
35414 17	Chucking grinders.....	..do.....		
35414 19	All other.....	..do.....		
	Internal cylindrical grinding machines:			
35414 21	Plain and chucking type.....	..do.....		
35414 25	Centerless.....	..do.....	(D)	(D)
	Surface grinding machines:			
	Rotary table type:			
35414 32	Horizontal.....	..do.....	(D)	(D)
35414 34	Vertical.....	..do.....		
	Reciprocating table type including face grinders:			
35414 35	Vertical.....	..do.....	(D)	(D)
35414 36	Horizontal.....	..do.....	1,225	10,347
35414 37	Hand surface type.....	..do.....	2,221	6,162
35414 39	All other surface grinding machines, including planer type..	..do.....	55	596
35414 41	Disc grinders.....	..do.....		
35414 42	Bench floor and snag grinders.....	..do.....		
35414 44	Abrasive belt grinders.....	..do.....	556	8,661
35414 71	Thread grinding machines.....	..do.....		
35414 52	Tool and cutter grinding machines, including universal and special.....	..do.....	1,789	11,595
	All other grinding machines:			
35414 96	Electrochemical grinding (elg).....	..do.....	r 1,144	r 10,661
35414 99	All other grinding machines, n.e.c.....	..do.....		
	Honing and lapping machines:			
	Honing machines, except gear honing:			
35414 73	Internal, including combination bore-hone.....	..do.....	1,289	6,908
35414 76	External.....	..do.....	(D)	(D)
35414 79	Flat surface lapping machines.....	..do.....		
35414 8*	All other honing and lapping machines (including combination honon and lapping and cylindrical surface lapping machines, except gear lapping).....	..do.....	446	3,711

See footnotes at end of table.



TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1972	
3541- --	METAL-CUTTING MACHINE TOOLS--Continued			
35414 --	Grinding and Polishing Machines, Except Gear-Tooth Grinding, Lapping, Polishing, and Buffing Machines--Continued			
	Machines valued \$1,000 or more--Continued			
	Polishing and buffing machines:			
35414 62	Polishing stands, bench and floor.....	Number units.....	868	r 4,251
35414 63	Abrasive belt, drum, and disc (not grinding).....	..do.....		
35414 69	All other polishing and buffing machines, including speed lathe and multistation type.....	..do.....	820	5,784
35414 9*	Machines valued under \$1,000.....	..do.....	87,224	10,716
35415 --	Lathes.....	..do.....	12,295	203,209
	Machines valued \$1,000 and over:			
35415 11	Bench lathes, except bench turret.....	..do.....	(D)	(D)
	Manufacturing and tool room lathes:			
	Engine or tool, light and heavy duty:			
	Swing over cross slide:			
35415 14	Up to and including 8 inch.....	..do.....	4,383	28,418
35415 22	9 inch to 16 inch.....	..do.....		
35415 23	17 inch to 23 inch.....	..do.....	126	3,961
35415 25	24 inch to 36 inch.....	..do.....	53	6,491
35415 29	Over 36 inch.....	..do.....		
35415 3*	All other manufacturing and toolroom lathes, including manu- facturing (multi-tool automatics) and hollow-spindle oilfield.	..do.....	(D)	(D)
	Turret lathes, horizontal type:			
35415 51	Bench and floor light-duty type with turret attachment.....	..do.....	665	21,963
35415 55	Saddle type.....	..do.....		
35415 53	Ram type.....	..do.....		
	Automatic chucking lathes:			
	Single spindle:			
35415 62	With index turret.....	..do.....	547	27,316
35415 64	Without index turret.....	..do.....		
35415 65	Multiple spindle.....	..do.....	182	16,960
35415 72	Automatic between-center lathes.....	..do.....	107	7,996
	Screw (bar) machines:			
35415 81	Single spindle.....	..do.....	1,107	42,804
35415 88	Multiple spindle.....	..do.....		
35415 84	Vertical turning and boring mills.....	..do.....	(D)	(D)
35415 99	All other lathes, including boring and combination boring and turning.....	..do.....	465	20,260
35415 08	Machines valued under \$1,000.....	..do.....	(D)	(D)
35416 --	Milling Machines, Except Multi-Function.....	..do.....	r 23,607	r 81,707
	Machines valued \$1,000 and over:			
35416 12	Bench-type, hand or powder feed.....	..do.....	(D)	(D)
35416 13	Hand.....	..do.....	-	-
	Knee-type, except bench type:			
35416 22	Horizontal plain, universal and ram.....	..do.....	r 383	r 9,169
35416 25	Vertical, except ram.....	..do.....	r 11,134	r 39,984
35416 27	Vertical ram (swivel head and turret type).....	..do.....		
35416 29	All other knee-type.....	..do.....		
	Bed-type milling machines:			
35416 31	Single spindle.....	..do.....	r 459	r 6,477
35416 35	Multiple spindle and special purpose.....	..do.....	r 47	r 3,538
35416 52	Profile machines and duplicators, including spar millers.....	..do.....	r 67	r 7,683
35416 57	Die sinking machines.....	..do.....	172	1,620
35416 95	Engraving machines, drum-type millers, cam millers, and panto- graph millers.....	..do.....		
35416 41	Planer type milling machines.....	..do.....	r 179	r 9,199
35416 9*	All other milling machines, including skin millers and thread milling machines.....	..do.....		
35416 98	Machines valued under \$1,000.....	..do.....	(D)	(D)
35418 --	All Other Metal-Cutting Machine Tools, Except Those Designed Pri- marily for Home Workshops, Laboratories, Garages, Etc.....	..do.....	r 34,629	r 251,877
	Machines valued \$1,000 or more:			
	Broaching machines:			
35418 11	Internal.....	..do.....	96	7,414
35418 07	Surface.....	..do.....		
35418 18	All other broaching machines.....	..do.....		
	Planers:			
35418 21	Double housing.....	..do.....	-	-
35418 25	Open side.....	..do.....	(D)	(D)
35418 26	All other, including die block.....	..do.....	-	-
	Shapers (except gear) and slotters:			
35418 28	Horizontal, excluding gear.....	..do.....	38	590
35418 33	Vertical, including slotters and keyseaters.....	..do.....	-	-
35418 35	All other shapers and slotters.....	..do.....	-	-

See footnotes at end of table.

TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1972	
3541- --	METAL-CUTTING MACHINE TOOLS--Continued			
35418 --	All Other Metal-Cutting Machine Tools, Except Those Designed Pri- marily for Home Workshops, Laboratories, Garages, Etc.--Con. Machines valued \$1,000 or more--Continued			
	Sawing and cutoff machines:			
35418 37	Power hacksaws.....	Number units.....	205	919
35418 39	Circular cutoff saws (cold).....	..do.....	194	2,628
35418 41	Abrasive wheelsaws.....	..do.....	741	2,081
35418 43	Bandsaws.....	..do.....	3,797	9,084
35418 47	Contour sawing and filing machines, including band type....	..do.....	1,056	3,722
35418 45	All other sawing and cutoff machines, including friction....	..do.....	1,327	4,294
35418 48	Tapping machines.....	..do.....	610	3,931
35418 60	Threading machines, except thread millers and threadgrinders..	..do.....	(D)	(D)
	Multi-function N/C machines, n.e.c. (machining centers):			
35418 62	Drill, mill and bore (manual tool change), vertical and horizontal.....	..do.....	(D)	(D)
35418 64	Drill, mill and bore (indexing turret).....	..do.....	(D)	(D)
	Drill, mill and bore (automatic tool change):			
35418 68	Vertical.....	..do.....	r 162	r 14,696
	Horizontal.....	..do.....	r 145	r 25,149
35418 73	Station and transfer machines containing multiple stations for boring, broaching, drilling, grinding, turning, milling, tapping, reaming, counter boring, measuring, etc. (including way, rotary index, center column, trunnion, plain, or pallet transfer types).....	..do.....	674	132,582
35418 77	Electrical discharge machines (EDM).....	..do.....	860	9,526
35418 82	Electrochemical machines (ECM).....	..do.....	(D)	(D)
35418 90	Miscellaneous metal-cutting machine tools, including rifling, centering, keyseating, pointing, chamfering, facing, shaving, grooving, counter-sinking, burring, forming, drilling, reaming, and screw and nut slotting machines.....	..do.....	455	5,436
35418 98	Machines valued under \$1,000.....	..do.....	23,543	10,714
			1967	
3541 pt.	METAL-CUTTING MACHINE TOOLS, TOTAL.....	..do.....	236,167	1,373,178
	Average value under \$1,000.....	..do.....	150,153	36,759
	Average value \$1,000 or over.....	..do.....	86,014	1,336,419
35411 --	Boring Machines.....	..do.....	1,813	117,837
	Horizontal boring, drilling, and milling machines:			
35411 11	Table type.....	..do.....		
35411 13-19	Rotary table type, floor type, and all other.....	..do.....		
35411 21-29	Vertical boring and turning mills, including vertical turret lathes.....	..do.....	484	66,361
35411 51-59	Precision boring machines.....	..do.....	498	23,046
35411 71-73	Jig boring machines.....	..do.....	593	26,642
35411 91-99	All other boring machines.....	..do.....	238	1,788
35412 --	Drilling Machines.....	..do.....	48,747	122,820
	Average value under \$1,000.....	..do.....	40,938	9,065
	Average value \$1,000 or over.....	..do.....	7,809	113,755
	Sensitive drilling machines:			
35412 11	Bench type:			
	Average value under \$1,000.....	..do.....	1,643	579
	Average value \$1,000 or over.....	..do.....	141	343
35412 15	Floor and pedestal type:			
	Average value under \$1,000.....	..do.....	( <sup>2</sup> )	( <sup>2</sup> )
	Average value \$1,000 or over.....	..do.....	1,397	6,080
	Vertical (upright) drilling machines:			
35412 21	Plain-upright:			
	Average value under \$1,000.....	..do.....	( <sup>2</sup> )	( <sup>2</sup> )
	Average value \$1,000 or over.....	..do.....	674	9,463
35412 25	Indexing turret head.....	..do.....	2,239	25,256
35412 23	Heavy duty (manufacturing).....	..do.....	(D)	(D)
35412 29	All other vertical (upright) drilling machines.....	..do.....	( <sup>2</sup> )	( <sup>2</sup> )
	Radial drilling machines:			
	Plain and universal:			
35412 31	Under 13-inch column.....	..do.....	311	3,773
35412 35	13-inch column and over.....	..do.....		
35412 49	All other radial drilling machines.....	..do.....	398	5,688
	Multiple spindle drilling machines (cluster of spindles driven from one central power unit):			
35412 51-55	Adjustable joint, fixed center and rail mounted.....	..do.....	405	7,671
35412 61	Automatic drilling machines (combination, horizontal-vertical, opposed heads).....	..do.....	860	20,459
35412 69	All other automatic multiple-spindle drilling machines.....	..do.....	64	2,706
35412 81-89	Deep-hole drilling machines.....	..do.....	(D)	(D)
35412 99	All other drilling machines.....	..do.....	40,176	27,429

See footnotes at end of table.

TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1967	
3541 pt.	METAL-CUTTING MACHINE TOOLS--Continued			
35413 --	Gear-Cutting Machines (Average Value \$1,000 or Over).....	Number units.....	1,556	63,851
35413 71	Gear-tooth finishing machines.....	..do.....	520	16,255
35413 11,13	Gear hobbors, horizontal and vertical.....	..do.....	368	11,336
35413 31- 59,99	All other gear cutting machines.....	..do.....	668	36,260
35414 --	Grinding and Polishing Machines, Except Gear-Tooth Grinding, Lapping, Polishing, and Buffing Machines.....	..do.....	91,417	247,760
	Average value under \$1,000.....	..do.....	69,344	7,386
	Average value \$1,000 or over.....	..do.....	22,073	240,374
	External cylindrical grinding machines:			
35414 11	Plain.....	..do.....	570	19,569
35414 13	Universal.....	..do.....	795	13,979
35414 15,16	Grinders, roll and centerless.....	..do.....	636	27,993
35414 19	All other.....	..do.....	362	24,511
	Surface grinding machines:			
35414 31	Rotary table type.....	..do.....	729	16,805
35414 33	Reciprocating table type, including face grinders <sup>3</sup> .....	..do.....	8,277	38,798
35414 39	All other surface grinding machines, including planer type....	..do.....	101	792
35414 43	Bench, floor, and snag grinders:			
	Bench.....	..do.....	<sup>4</sup> 54,099	<sup>4</sup> 3,526
35414 45	Floor and snag grinders:			
	Average value under \$1,000.....	..do.....	( <sup>3</sup> )	( <sup>3</sup> )
	Average value \$1,000 or over.....	..do.....	<sup>4</sup> 732	<sup>4</sup> 1,964
35414 51	Tool and cutter grinding machines:			
	Universal.....	..do.....	1,859	7,900
35414 55	Special (broach, drilling, mills, saw, hob, and tap):			
	Average value under \$1,000.....	..do.....	5,058	1,529
	Average value \$1,000 or over.....	..do.....	934	7,654
35414 65	Polishing and buffing machines:			
	Floor-type:			
	Average value under \$1,000.....	..do.....	237	94
	Average value \$1,000 or over.....	..do.....	716	3,022
35414 61,63, 66,67,69	All other polishing and buffing machines (including speed lathes; abrasive belt, drum, and disc; bench; and swing frame, sheet metal and tube polishing types):			
	Average value under \$1,000.....	..do.....	7,222	1,199
	Average value \$1,000 or over.....	..do.....	1,588	8,869
35414 75	Honing and lapping machines:			
	Honing machines (except gear honing), internal.....	..do.....	<sup>3</sup> 1,700	<sup>3</sup> 7,557
35414 79	Flat surface lapping machines.....	..do.....		
35414 76- 78,81,83	All other honing and lapping machines (including external and combination boring and turning honing machines and cylindri- cal surface lapping machines, except gear lapping).....	..do.....	<sup>3</sup> 744	<sup>3</sup> 6,054
35414 21- 25,41,49, 71,91-99	All other grinding machines, including internal cylindrical, disc, and thread grinders:			
	Average value under \$1,000.....	..do.....	2,634	1,040
	Average value \$1,000 or over.....	..do.....	2,424	54,905
35415 --	Lathes.....	..do.....	27,596	334,012
	Average value under \$1,000.....	..do.....	6,509	3,870
	Average value \$1,000 or over.....	..do.....	21,087	330,142
35415 11	Bench lathes, except bench turret lathes.....	..do.....	<sup>5</sup> 1,189	<sup>5</sup> 2,647
	Manufacturing and toolroom lathes:			
	Floor-engine-toolroom, light and heavy duty:			
35415 21	Up to and including 16-inch swing-over cross slide:			
	Average value under \$1,000.....	..do.....	1,052	999
	Average value \$1,000 or over.....	..do.....	11,947	57,425
35415 23	17-inch to 23-inch swing.....	..do.....	383	16,340
35415 25-29	24-inch swing and over.....	..do.....	126	15,393
35415 33	Gap lathes.....	..do.....		
35415 35-39	All other manufacturing and toolroom lathes, including manufacturing (multi-tool automatics) and hollow spindle (oilfield).....	..do.....	(D)	(D)
	Turret lathes:			
35415 51-55	Bench and floor light-duty type (with turret attachment) and saddle type <sup>6</sup> .....	..do.....	1,430	23,157
35415 53	Ram type.....	..do.....	698	14,125
	Automatic chucking lathes:			
35415 61	Single spindle.....	..do.....	1,824	77,205
35415 65	Multiple spindle.....	..do.....	340	26,449

See footnotes at end of table.



TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1967	
3541 pt. 35415 --	METAL-CUTTING MACHINE TOOLS--Continued Lathes--Continued			
	Automatic between-center lathes:			
35415 71	Single spindle.....	Number units.....	224	8,328
35415 75	Multiple spindle.....	..do.....	(D)	(D)
35415 81,88	Screw (bar) machines.....	..do.....	2,611	70,053
35415 77, 87,89-99	All other lathes, including right-angle carriage lathes, T-lathes, and boring and combination boring and turning lathes <sup>6</sup> .	..do.....	753	12,484
35416 -- 35416 11	Milling Machines.....	..do.....	24,005	234,267
	Bench and hand milling machines, including knee-type bench milling machines:			
	Average value under \$1,000.....	..do.....	962	493
	Average value \$1,000 or over.....	..do.....	335	1,088
	Knee-type milling machines, except bench type:			
	Horizontal:			
35416 21	Plain.....	..do.....	1,200	19,489
35416 23	Universal.....	..do.....	199	4,058
	Vertical:			
35416 26	2 horsepower and under:			
	Average value under \$1,000.....	..do.....	(7)	(7)
	Average value \$1,000 and over.....	..do.....	12,606	27,117
35416 28	Over 2 horsepower.....	..do.....	306	8,485
35416 29	All other knee-type milling machines.....	..do.....	794	7,816
35416 71 35416 31,35	Ram type.....	..do.....		
	Bed-type milling machines, including single spindle, multiple spindle, and special purpose machines.....	..do.....	624	16,124
35416 51	Profile machines and duplicators.....	..do.....	1,563	81,008
35416 57	Die sinking machines.....	..do.....		
35416 95	Engraving machines, drum type millers, cam millers, and panto- graph millers.....	..do.....	5,416	68,589
35416 41, 53-55,61, 91-93, 99	All other milling machines, including planer type, skin millers, spar millers, and thread milling machines <sup>7</sup> .....	..do.....		
35418 pt.	All Other Metal-Cutting Type Machine Tools, Except Those Designed Primarily for Home Workshops, Laboratories, Garages, Etc.....	..do.....	41,033	252,631
	Average value under \$1,000.....	..do.....	28,028	12,249
	Average value \$1,000 or over.....	..do.....	13,005	240,382
	Broaching machines:			
	Hydraulic:			
35418 10	Horizontal.....	..do.....	122	10,577
35418 12,13	Vertical and rotary.....	..do.....		
35418 14-16	Mechanical (horizontal, vertical, and continuous chain type)...	..do.....	61	4,630
35418 19	All other broaching machines.....	..do.....	9	365
	Shapers (except gear shapers) and slotters:			
35418 29	Horizontal (plain and universal), under 16-inch stroke.....	..do.....	<sup>8</sup> 192	<sup>8</sup> 2,438
35418 30, 33, 35	All other shapers and slotters, including vertical and horizontal 16-inch stroke and over.....	..do.....		
	Sawing and cutoff machines:			
35418 37	Power hacksaws:			
	Average value under \$1,000.....	..do.....	3,971	654
	Average value \$1,000 or more.....	..do.....	633	2,387
35418 39	Circular cutoff saws.....	..do.....	<sup>8</sup> 324	<sup>8</sup> 1,322
35418 41	Abrasive cutoff saws:			
	Average value under \$1,000.....	..do.....	1,602	675
	Average value \$1,000 or over.....	..do.....	774	2,904
35418 43,45	All other sawing and cutoff machines, including bandsaw cutoff saws:			
	Average value under \$1,000.....	..do.....	10,456	6,159
	Average value \$1,000 or over.....	..do.....	3,391	21,928
	Tapping machines:			
35418 49	Vertical <sup>9</sup> .....	..do.....	(D)	(D)
35418 50	Horizontal and radial arm.....	..do.....	-	-
35418 53,55	All other tapping machines, including nut, coupling, and shell <sup>1</sup> .....	..do.....	110	1,748
35418 47	Contour saw and filling machines, including band type.....	..do.....	<sup>5</sup> 2,443	<sup>5</sup> 883
	Thread machines, except thread millers and thread grinders:			
35418 59	Pipe and nipple <sup>8</sup> .....	..do.....	<sup>8</sup> 432	<sup>8</sup> 3,784
35418 57	Bolt.....	..do.....		
35418 61	All other threading machines.....	..do.....		

See footnotes at end of table.

TABLE 6A-2. Total Shipments (Including Exports) of Metal-Cutting Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Quantity	Value  (\$1,000)
	(As reported in Current Industrial Reports, series MQ-35W, Metalworking Machinery)		1967	
3541 pt.	METAL-CUTTING MACHINE TOOLS--Continued			
35418 pt.	All Other Metal-Cutting Type Machine Tools, Except Those Designed Primarily for Home Workshops, Laboratories, Garages, Etc.--Con.			
35418 63	Rifling machines.....	Number units.....	} <sup>8</sup> 269	<sup>8</sup> 2,075
35418 67	Keyseating machines.....	...do.....		
35418 69	Pointing, chamfering, facing, shaving, grooving, counter- sinking, burring, forming, and drilling machines (excluding gear-tooth machines).....	...do.....		
35418 73	Transfer machines containing multiple stations for boring, broaching, drilling, grinding, turning, milling, tapping, reaming, counter boring, measuring, etc., (including way, rotary index, center column, trunnion, plain, or pallet transfer types).....	...do.....	637	131,708
35418 21- 27, 65	Planers and centering machines.....	...do.....	(D)	(D)
35418 70 75-90	All other metal-cutting machines <sup>8</sup> <sup>9</sup> .....	...do.....	11,183	41,683

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. \* Represents a combination of codes. <sup>r</sup>Revised.

<sup>1</sup>Includes data for some machines with an average value of under \$1,000.

<sup>2</sup>Data for machines with an average value of less than \$1,000 have been included with all other drilling machines (code 35412 99).

<sup>3</sup>Data for machines with an average value of less than \$1,000 have been included with all other grinding and polishing machines (code 35414 99).

<sup>4</sup>Data for bench grinders, average value \$1,000 and over (code 35414 43) are included with floor and snag grinders, average value \$1,000 and over (code 35414 45).

<sup>5</sup>Data for machines with average value over \$1,000 are withheld to avoid disclosing operations of individual companies.

<sup>6</sup>Data for machines with an average value of less than \$1,000 have been included with all other lathes (code 35415 99).

<sup>7</sup>Included with all other milling machines (code 35416 99).

<sup>8</sup>Data for machines with an average value of less than \$1,000 have been included with all other metal-cutting machines (code 35418 90).

<sup>9</sup>Includes data for reaming machines (except rifle reaming); screw and nut slotting machines; electroerosion machines; ultrasonic machines; and electrolytic machines.

TABLE 6A-3. Total Shipments (Including Exports) of Metal-Forming-Type Machine Tools: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
				(\$1,000)
			1972	
35421 --	Punching, Shearing, Bending, and Forming Machines.....	Number of units.....	<sup>r</sup> 30,795	<sup>r</sup> 129,760
	Punching and shearing machines.....	...do.....	<sup>r</sup> 7,539	<sup>r</sup> 62,995
	Machines valued \$1,000 or more:			
	Power operated:			
35421 11	Punches, including combination punching and shearing machines.....	...do.....	<sup>r</sup> 852	<sup>r</sup> 17,531
35421 12	Punching machines, fixed position.....	...do.....	(D)	(D)
35421 14	Punching machines, two axes positioning table.....	...do.....	(D)	(D)
35421 13	Plate shearing machines (squaring, slitting, etc.).....	...do.....	<sup>r</sup> 1,602	<sup>r</sup> 22,724
35421 15	Bar and angle shearing machines.....	...do.....	}	<sup>r</sup> 11,612
35421 17	Rotary shearing machines.....	...do.....		
35421 19	Other power operated punching and shearing machines.....	...do.....		5,808
35421 09	Manually operated.....	...do.....	(D)	(D)
35421 97	Machines valued under \$1,000.....	...do.....	3,669	1,517
	Bending and forming machines.....	...do.....	<sup>r</sup> 23,256	<sup>r</sup> 66,765
	Machines valued \$1,000 or more:			
35421 31	Bending rolls, sheet and plate (power).....	...do.....	<sup>r</sup> 789	<sup>r</sup> 6,013
35421 35	Bending rolls, angles, bars, and shapes (power).....	...do.....	}	<sup>r</sup> 24,563
35421 38	Press brakes and folders (power).....	...do.....		
35421 42	Rotary bending and forming machines (power).....	...do.....		4,389
35421 46	Rotary head and ram bending machines (pipe, bar, etc.) power.....	...do.....	1,124	
35421 49	Other bending and forming machines (power or manual).....	...do.....	565	5,822
35421 98	Machines valued under \$1,000.....	...do.....	<sup>r</sup> 3,590	<sup>r</sup> 19,385
			15,057	6,593

See footnotes at end of table.

TABLE 6A-3. Total Shipments (Including Exports) of Metal-Forming-Type Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
				(\$1,000)
1972				
35422 --	Presses, Including Forging.....	Number of units.....	r 23,454	r 166,660
	Machines valued \$1,000 or more:			
	Mechanical:			
	Open inclinable gap type:			
35422 12	50 tons and under.....	..do.....	1,612	9,995
35422 13	51 tons and over.....	..do.....	1,282	19,741
	Vertical straight sided and arch frame, excluding knuckle joint (including cam and crank):			
	Single action:			
	Single point:			
35422 14	200 tons and under.....	..do.....	46	948
35422 15	201 tons to 300.....	..do.....	45	6,977
35422 16	301 tons and over.....	..do.....		
	Two point:			
35422 17	300 tons and under.....	..do.....	242	12,657
35422 18	301 tons to 500.....	..do.....	52	12,843
35422 19	501 tons and over.....	..do.....		
35422 2*	Four point.....	..do.....	52	14,613
35422 3*	Double and triple action (including toggle).....	..do.....	41	7,427
35422 3*	Knuckle joint.....	..do.....	(D)	(D)
35422 41	Horizontal.....	..do.....		
35422 42	Gap and horn type.....	..do.....	219	3,677
	Automatic high speed presses, strip or coil fed:			
35422 43	50 tons and under.....	..do.....	190	4,656
35422 4*	51 tons and over.....	..do.....	302	19,823
35422 4*	Transfer feed presses, excluding automated lines of standard equipment.....	..do.....	200	7,084
35422 59	All other mechanical presses, including end wheel type and bulldozers.....	..do.....		
35422 60	Pneumatic presses.....	..do.....	(D)	(D)
	Hydraulic presses, metalworking only, vertical single action:			
	Housing or straight column type:			
35422 61	300 tons and under.....	..do.....	169	6,033
35422 6*	301 tons and over.....	..do.....		
	Open rod type:			
35422 64	500 tons and under.....	..do.....	279	2,885
35422 6*	501 tons and over.....	..do.....	(D)	(D)
	Gap or C-frame:			
35422 68	50 tons and under.....	..do.....	1,342	10,489
35422 6*	51 tons and over.....	..do.....		
35422 77	Extrusion presses.....	..do.....		
35422 7*	Vertical double action (2 slide).....	..do.....	(D)	(D)
35422 78	Horizontal type, except extrusion.....	..do.....	(D)	(D)
35422 79	All other hydraulic presses.....	..do.....	709	9,948
35422 9*	Machines valued under \$1,000.....	..do.....	16,365	4,418
35423 --	Other Metal-Forming Machine Tools.....	..do.....	r 5,526	r 114,318
	Machines valued \$1,000 or more:			
	Forging machines, except presses.....	..do.....	638	34,505
35423 27	Headers and upsetters.....	..do.....	501	23,882
35423 31	Swaging machines.....	..do.....		
35423 3*	Other forging machinery, including hammers and forging rolls.	..do.....	137	10,623
35423 42	Gear and spline rolling machinery.....	..do.....	(D)	(D)
35423 43	Thread rolling machinery.....	..do.....	234	4,692
35423 45	Spinning lathes (flow turn, hydrosin, and spin forge).....	..do.....	(D)	(D)
35423 47	Marking machines, knurling machines, etc.....	..do.....		
35423 49	Riveting machines, excluding handheld portable types.....	..do.....	2,263	7,301
35423 5*	Metal container-making machines, including can, barrel, and drum.....	..do.....	r 1,333	r 41,000
35423 9*	All other metal-forming-type machine tools (including electro- forming and high energy rate metal-forming machines), n.e.c..	..do.....	r 374	r 23,981
35423 98	Machines valued under \$1,000.....	..do.....	577	188
1967				
35421 --	Punching, Shearing, Bending, and Forming Machines.....	..do.....	22,938	114,365
	Punching and shearing machines.....	..do.....	8,553	56,923
	Average value under \$1,000.....	..do.....	4,706	1,480
	Average value \$1,000 or over.....	..do.....	3,847	55,443
35421 09	Manually operated:			
	Average value under \$1,000.....	..do.....	(1)	(1)
	Average value \$1,000 or over.....	..do.....	(D)	(D)

- See footnotes at end of table.



TABLE 6A-3. Total Shipments (Including Exports) of Metal-Forming-Type Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value (\$1,000)
			1967	
35421 --	Plumbing, Shearing, Bending, and Forming Machines--Continued			
	Punching and shearing machines--Continued			
	Power:			
35421 11	Punches, includes combination punching and shearing machines.....	Number of units.....	818	15,971
35421 13	Plate shearing machines (squaring, slitting, etc.).....	...do.....	1,833	23,396
35421 15	Bar and angle shearing machines.....	...do.....	(D)	(D)
35421 17	Rotary shearing machines.....	...do.....	460	6,704
35421 19	Other punching and shearing machines:			
	Average value under \$1,000.....	...do.....	<sup>1</sup> 4,706	<sup>1</sup> 1,480
	Average value \$1,000 or over.....	...do.....	271	6,159
	Bending and forming machines.....	...do.....	14,385	57,442
	Average value under \$1,000.....	...do.....	9,168	3,570
	Average value \$1,000 or over.....	...do.....	5,217	53,872
	Power:			
	Bending rolls:			
35421 31	Sheet and plate.....	...do.....	764	8,537
35421 35	Angles, bars, and shapes.....	...do.....	2,441	27,990
35421 37	Bending brakes and folders <sup>2</sup> .....	...do.....	<sup>2</sup> 668	<sup>2</sup> 3,538
35421 41	Rotary bending and forming machines.....	...do.....	<sup>2</sup> 346	<sup>2</sup> 5,043
35421 45	Rotary head and ram bending machines (pipe, bar, etc.).....	...do.....		
35421 33, 39,43,47, 49,51	Other bending and forming machines (including power and manual):			
	Average value under \$1,000.....	...do.....	<sup>2</sup> 9,168	<sup>2</sup> 3,570
	Average value \$1,000 or over.....	...do.....	998	8,764
35422 --	Presses, Including Forging.....	...do.....	41,834	240,058
	Average value under \$1,000.....	...do.....	28,281	6,506
	Average value \$1,000 or over.....	...do.....	13,553	233,552
	Mechanical:			
	Open inclinable gap type:			
35422 11	9 tons and under:			
	Average value under \$1,000.....	...do.....	7,836	995
	Average value \$1,000 or over.....	...do.....	(D)	(D)
35422 12	10 to 50 tons.....	...do.....	(D)	(D)
35422 13	51 tons and over.....	...do.....	2,173	24,643
	Vertical straight sided and arch frame, excluding knuckle joint (including cam and crank):			
	Single action:			
	Single point:			
35422 14	200 tons and under.....	...do.....	195	3,756
35422 15	201 tons to 300.....	...do.....	44	2,347
35422 16	301 tons and over.....	...do.....	59	8,347
	Two point:			
35422 17	300 tons and under.....	...do.....	529	21,844
35422 18,19	301 tons and over.....	...do.....	192	30,013
35422 23,26	Four point.....	...do.....	149	23,715
35422 29,30, 32-38	Double and triple action (including toggle).....	...do.....	107	19,932
	Automatic high speed presses, strip or coil fed:			
35422 43	50 tons and under.....	...do.....	<sup>3</sup> 643	<sup>3</sup> 6,865
35422 44,45	51 tons and over.....	...do.....	393	17,582
35422 39,40	Knuckle joint.....	...do.....		
35422 41	Horizontal.....	...do.....		
35422 42	Gap and horn type.....	...do.....	517	17,825
35422 58	Bulldozers.....	...do.....		
35422 46-47	Transfer feed presses (excluding automated lines of standard equipment).....	...do.....		
35422 59	All other mechanical presses (including end wheel type):			
	Average value under \$1,000.....	...do.....	413	135
	Average value \$1,000 or over.....	...do.....	306	8,191
	Hydraulic and pneumatic presses, metalworking only:			
	Vertical single action:			
35422 61-63	Housing or straight column type.....	...do.....	<sup>3</sup> 246	<sup>3</sup> 5,372
35422 64-66	Open rod type.....	...do.....	333	3,425
	Gap or C-frame:			
35422 68	50 tons and under.....	...do.....	<sup>3</sup> 1,970	<sup>3</sup> 4,915
35422 69,70	51 tons and over.....	...do.....	130	2,199

See footnotes at end of table.

TABLE 6A-3. Total Shipments (Including Exports) of Metal-Forming-Type Machine Tools: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(\$1,000)	
			1967	
35422 --	Presses, Including Forging--Continued			
	Hydraulic and pneumatic presses, metalworking only--Continued			
35422 71,72	Vertical double action (2 slide).....	Number of units.....	226	6,025
35422 73	Vertical triple action.....	..do.....		
35422 74-76	Horizontal type, except extrusion.....	..do.....		
35422 77	Extrusion presses.....	..do.....		
35422 81	Stretch wrap forming machines.....	..do.....		
35422 79	All other hydraulic presses:			
	Average value under \$1,000.....	..do.....	( <sup>3</sup> )	( <sup>3</sup> )
	Average value \$1,000 or over.....	..do.....	999	12,233
35422 91	Manual presses (arbor, straightening, forging, and assembling) <sup>4</sup> .....	..do.....	14,057	1,985
35422 00	All other presses (average value under \$1,000) <sup>3</sup> .....	..do.....	5,814	3,278
35423 pt.	Other Metal-Forming Machine Tools.....	..do.....	7,566	98,831
	Forging machines, except presses.....	..do.....	810	29,644
35423 27	Headers and upsetters.....	..do.....	663	20,925
35423 30	Swaging machines.....	..do.....		
35423 12-23, 29, 35	Other forging machinery, including hammers and forging rolls <sup>4</sup> .....	..do.....	147	8,719
35423 49	Riveting machines, except handheld portable types:			
	Average value under \$1,000.....	..do.....	434	282
	Average value \$1,000 or over.....	..do.....	3,418	11,800
35423 51, 52, 56	Metal container-making machines, including can, barrel, and drum <sup>5</sup> .....	..do.....	1,078	26,233
35423 57	Die casting machines.....	..do.....	382	20,618
35423 43	Thread rolling machinery.....	..do.....	1,317	5,622
35423 45	Spinning lathes (flow turn, hydrosin, and spin forge) <sup>4</sup> .....	..do.....		
35423 47	Marking machines, knurling machines, etc. <sup>5</sup> .....	..do.....		
35423 61, 73, 75, 79, 81	Metal deposit forming machines (electroforming), high energy rate metal-forming machines (electromagnetic discharge), and mechanical-pneumatic or hydraulic forming machines.....	..do.....	127	4,632

(D) Withheld to avoid disclosing figures for individual companies. \* Represents a combination of codes. <sup>†</sup>Revised. pt. Part.<sup>1</sup>Data for machines with an average value of less than \$1,000 have been included with product code 35421 19, "Other punching and shearing machines."<sup>2</sup>Data for machines with an average value of less than \$1,000 have been included with product codes 35421 49 and 35421 51, "Other bending and forming machines."<sup>3</sup>Data for machines with an average value of less than \$1,000 have been included with product code 35422 00, "All other presses."<sup>4</sup>Includes data for some machines with an average value under \$1,000.<sup>5</sup>Data for machines with an average value of less than \$1,000 have been included with product code 35423 47, "Marking machines, knurling machines, etc."

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BORING MACHINES (35411)			BORING MACHINES (35411)--Continued		
United States.....	58.7	127.8	West Region.....	2.8	2.3
Northeast Region.....	9.0	25.8	Pacific Division.....	2.8	2.3
New England Division.....	3.7	17.4	California.....	AA	AA
Massachusetts.....	BB	CC			
Connecticut.....	AA	EE	DRILLING MACHINES (35412)		
Middle Atlantic Division.....	5.3	8.3	United States.....	73.7	128.5
New York.....	BB	7.2	Northeast Region.....	8.4	40.4
North Central Region.....	46.1	98.9	New England Division.....	6.8	29.5
East North Central Division.....	44.8	98.1	Massachusetts.....	AA	22.7
Ohio.....	11.9	FF	Rhode Island.....	AA	BB
Illinois.....	AA	3.4	Connecticut.....	BB	AA
Michigan.....	22.3	40.8	Middle Atlantic Division.....	1.6	10.9
Wisconsin.....	CC	FF	New York.....	AA	7.6
West North Central Division.....	1.3	(NA)	New Jersey.....	AA	BB

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DRILLING MACHINES (35412)--Continued			LATHES (35415)--Continued		
North Central Region.....	44.5	77.9	Northeast Region.....	65.1	144.0
East North Central Division.....	FF	GG	New England Division.....	46.8	119.2
Ohio.....	11.2	35.5	Maine.....	AA	(NA)
Indiana.....	BB	(NA)	Vermont.....	EE	FF
Illinois.....	CC	6.8	Massachusetts.....	BB	AA
Michigan.....	11.9	15.2	Rhode Island.....	CC	FF
Wisconsin.....	9.8	19.0	Connecticut.....	FF	64.4
West North Central Division.....	AA	AA	Middle Atlantic Division.....	18.2	24.8
South Region.....	5.8	9.3	New York.....	16.4	23.1
East South Central Division.....	5.4	CC	New Jersey.....	AA	1.6
Kentucky.....	BB	CC	North Central Region.....	130.0	213.6
Tennessee.....	BB	BB	East North Central Division.....	129.2	GG
West Region.....	15.0	(NA)	Ohio.....	90.9	158.6
Pacific Division.....	15.0	(NA)	Indiana.....	CC	EE
California.....	15.0	(NA)	Illinois.....	5.6	11.9
			Michigan.....	15.9	12.3
			Wisconsin.....	CC	EE
GEAR CUTTING AND FINISHING MACHINES (35413)			West Region.....	1.6	2.8
United States.....	56.7	(NA)	Pacific Division.....	2.6	BB
Northeast Region.....	FF	(NA)	California.....	AA	AA
New England Division.....	BB	(NA)			
Vermont.....	BB	(NA)	MILLING MACHINES (35416)		
Connecticut.....	AA	(NA)	United States.....	86.6	258.2
Middle Atlantic Division.....	FF	(NA)	Northeast Region.....	30.8	50.1
New York.....	FF	(NA)	New England Division.....	25.6	36.0
North Central Region.....	EE	(NA)	Massachusetts.....	BB	BB
East North Central Division.....	EE	(NA)	Connecticut.....	22.3	FF
Ohio.....	1.2	(NA)	Middle Atlantic Division.....	5.2	14.1
Illinois.....	BB	(NA)	New York.....	4.5	EE
Michigan.....	CC	(NA)	Pennsylvania.....	.7	(NA)
			North Central Region.....	53.0	186.9
GRINDING AND POLISHING MACHINES, EXCLUDING GEAR TOOTH (35414)			East North Central Division.....	51.6	186.6
United States.....	168.6	270.2	Ohio.....	18.2	74.7
Northeast Region.....	79.7	112.5	Illinois.....	8.0	44.6
New England Division.....	49.9	69.0	Michigan.....	CC	CC
Vermont.....	12.1	EE	Wisconsin.....	EE	GG
Massachusetts.....	FF	27.6	West North Central Division.....	1.4	(NA)
Rhode Island.....	11.1	EE	West Region.....	1.7	EE
Connecticut.....	CC	13.4	Pacific Division.....	1.7	EE
Middle Atlantic Division.....	29.8	43.5	California.....	1.7	EE
New York.....	8.1	9.2	OTHER MACHINE TOOLS INCLUDING HOME WORKSHOP, LABORATORIES, ETC. (35418)		
New Jersey.....	AA	1.9	United States.....	303.1	371.9
Pennsylvania.....	FF	32.4	Northeast Region.....	39.8	44.6
North Central Region.....	74.6	140.4	New England Division.....	29.2	34.3
East North Central Division.....	64.1	128.6	New Hampshire.....	EE	EE
Ohio.....	26.6	59.1	Massachusetts.....	6.8	CC
Indiana.....	1.8	(NA)	Connecticut.....	BB	12.5
Illinois.....	12.9	37.0	Rhode Island.....	BB	(NA)
Michigan.....	19.6	30.0	Middle Atlantic Division.....	10.5	10.3
Wisconsin.....	3.2	2.2	New York.....	8.3	2.7
West North Central Division.....	10.5	11.8	New Jersey.....	1.1	1.3
Minnesota.....	4.7	7.3	Pennsylvania.....	1.1	6.3
Missouri.....	BB	(NA)	North Central Region.....	250.4	287.4
South Dakota.....	AA	BB	East North Central Division.....	228.1	264.6
South Region.....	6.3	8.1	Ohio.....	36.8	41.0
East South Central Division.....	1.6	1.7	Indiana.....	2.0	(NA)
West South Central Division.....	4.4	3.4	Illinois.....	64.5	54.1
Arkansas.....	BB	AA	Michigan.....	118.5	161.1
Texas.....	BB	BB	Wisconsin.....	6.3	7.5
West Region.....	8.0	9.2	West North Central Division.....	22.3	22.8
Mountain Division.....	AA	(NA)	Minnesota.....	CC	EE
Pacific Division.....	CC	8.9	Iowa.....	AA	(NA)
California.....	6.1	CC	Missouri.....	EE	10.7
LATHES (35415)			South Region.....	7.5	FF
United States.....	197.6	360.5	South Atlantic Division.....	BB	(NA)
			North Carolina.....	BB	(NA)
			East South Central Division.....	BB	BB
			Tennessee.....	BB	BB

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER MACHINE TOOLS INCLUDING HOME WORKSHOP, LABORATORIES, ETC. (35418)--Continued			PRESSES, INCLUDING FORGING PRESSES (35422)		
South Region--Continued			United States.....	183.2	261.3
West South Central Division.....	.8	EE	Northeast Region.....	FF	43.2
Texas.....	AA	EE	New England Division.....	CC	11.7
West Region.....	5.5	EE	Vermont.....	AA	(NA)
Pacific Division.....	5.4	EE	Massachusetts.....	BB	BB
Washington.....	BB	(NA)	Connecticut.....	CC	CC
California.....	BB	19.1	Middle Atlantic Division.....	FF	31.5
PARTS FOR METAL-CUTTING MACHINE TOOLS AND REBUILT MACHINE TOOLS (35419)			New York.....	15.8	19.3
United States.....	242.1	241.0	New Jersey.....	2.0	AA
Northeast Region.....	67.8	65.2	Pennsylvania.....	CC	EE
New England Division.....	44.9	46.4	North Central Region.....	137.5	208.5
New Hampshire.....	CC	AA	East North Central Division.....	132.8	GG
Vermont.....	10.3	CC	Ohio.....	43.9	17.4
Massachusetts.....	8.5	14.9	Indiana.....	7.5	CC
Rhode Island.....	CC	8.8	Illinois.....	61.4	103.2
Connecticut.....	13.4	13.7	Michigan.....	18.9	EE
Middle Atlantic Division.....	22.9	18.8	West North Central Division.....	4.8	6.4
New York.....	EE	12.9	Minnesota.....	AA	BB
Pennsylvania.....	CC	CC	Missouri.....	AA	AA
North Central Region.....	168.8	171.2	Kansas.....	AA	(NA)
East North Central Division.....	GG	165.9	South Region.....	CC	5.0
Ohio.....	67.5	85.1	South Atlantic Division.....	BB	BB
Indiana.....	4.8	AA	Georgia.....	BB	AA
Illinois.....	33.2	FF	West South Central Division.....	BB	BB
Michigan.....	38.5	36.6	Texas.....	BB	BB
Wisconsin.....	EE	FF	West Region.....	BB	4.6
West North Central Division.....	CC	5.2	Pacific Division.....	BB	4.6
Minnesota.....	BB	BB	California.....	BB	4.6
Iowa.....	BB	AA	OTHER METAL-FORMING MACHINE TOOLS, INCLUDING FORGING (35423)		
South Region.....	1.6	(NA)	United States.....	149.0	122.9
East South Central Division.....	AA	(NA)	Northeast Region.....	34.5	32.6
West Region.....	3.9	4.0	New England Division.....	20.0	16.2
Pacific Division.....	BB	BB	Massachusetts.....	BB	BB
California.....	BB	BB	Connecticut.....	14.9	11.2
PUNCHING, SHEARING, BENDING, FORMING MACHINES (35421)			Middle Atlantic Division.....	14.5	16.4
United States.....	153.4	130.9	New York.....	8.9	11.2
Northeast Region.....	31.2	31.5	New Jersey.....	1.6	1.3
New England Division.....	8.2	7.8	Pennsylvania.....	4.0	4.0
Connecticut.....	CC	6.4	North Central Region.....	81.4	71.0
Middle Atlantic Division.....	23.0	23.7	East North Central Division.....	80.5	GG
New York.....	13.8	12.0	Ohio.....	38.1	41.3
New Jersey.....	BB	BB	Indiana.....	2.3	(NA)
Pennsylvania.....	CC	CC	Illinois.....	13.0	14.0
North Central Region.....	102.5	88.0	Michigan.....	26.7	14.7
East North Central Division.....	89.4	78.6	South Region.....	BB	3.6
Ohio.....	36.8	38.5	South Atlantic Division.....	CC	BB
Indiana.....	3.8	1.9	North Carolina.....	AA	(NA)
Illinois.....	39.7	26.8	Florida.....	AA	(NA)
Michigan.....	7.8	8.9	West South Central Division.....	BB	(NA)
Wisconsin.....	1.3	2.5	Texas.....	BB	(NA)
West North Central Division.....	13.1	9.5	West Region.....	FF	15.7
Minnesota.....	CC	CC	Mountain Division.....	CC	(NA)
Iowa.....	BB	AA	Colorado.....	CC	(NA)
Missouri.....	AA	1.7	Pacific Division.....	FF	EE
Kansas.....	AA	(NA)	Washington.....	AA	BB
South Region.....	14.2	9.8	California.....	EE	EE
South Atlantic Division.....	12.6	8.8	METAL-FORMING MACHINE TOOL PARTS AND REBUILT MACHINERY (35424)		
North Carolina.....	CC	CC	United States.....	161.5	125.7
Georgia.....	BB	BB	Northeast Region.....	43.9	53.3
Florida.....	AA	(NA)	New England Division.....	9.0	14.6
West Region.....	5.5	1.6	Connecticut.....	CC	12.7
Pacific Division.....	BB	1.6	Middle Atlantic Division.....	34.9	38.7
California.....	BB	AA	New York.....	18.0	16.8
			New Jersey.....	BB	4.6
			Pennsylvania.....	EE	17.3

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL-FORMING MACHINE TOOL PARTS AND REBUILT MACHINERY (35424)--Continued			INDUSTRIAL MOLDS (35442)--Continued		
North Central Region.....	101.6	59.5	Northeast Region--Continued		
East North Central Division.....	96.1	GG	New England Division.....	52.3	42.6
Ohio.....	30.7	17.4	New Hampshire.....	AA	(NA)
Indiana.....	2.0	(NA)	Massachusetts.....	32.4	23.3
Illinois.....	41.0	27.3	Rhode Island.....	2.4	1.7
Michigan.....	22.0	12.8	Connecticut.....	15.4	15.9
West North Central Division.....	5.4	(NA)	Middle Atlantic Division.....	122.6	79.7
Minnesota.....	BB	(NA)	New York.....	28.4	19.0
South Dakota.....	AA	(NA)	New Jersey.....	38.2	32.3
			Pennsylvania.....	56.0	28.4
South Region.....	4.1	1.9	North Central Region.....	376.8	270.0
South Atlantic Division.....	BB	(NA)	East North Central Division.....	347.2	255.9
Georgia.....	AA	(NA)	Ohio.....	117.9	82.1
West Region.....	12.0	11.0	Indiana.....	34.3	24.8
Pacific Division.....	12.0	11.0	Illinois.....	87.5	66.3
Washington.....	BB	BB	Michigan.....	92.4	73.5
California.....	CC	CC	Wisconsin.....	15.1	9.2
			West North Central Division.....	29.6	14.1
SPECIAL DIES, TOOLS, DIE SETS, JIGS, FIXTURES (35441)			Minnesota.....	14.5	6.9
United States.....	1,520.1	1,719.8	Iowa.....	1.2	(NA)
Northeast Region.....	275.7	334.5	Missouri.....	8.3	6.3
New England Division.....	74.7	90.7	Kansas.....	BB	(NA)
Maine.....	1.7	1.0	South Region.....	37.5	20.1
New Hampshire.....	1.5	1.6	South Atlantic Division.....	28.2	15.2
Massachusetts.....	25.9	29.4	North Carolina.....	12.3	4.0
Rhode Island.....	7.5	CC	South Carolina.....	BB	AA
Connecticut.....	37.6	49.6	Georgia.....	6.2	1.9
Middle Atlantic Division.....	201.0	243.8	Florida.....	5.7	3.5
New York.....	78.2	75.3	East South Central Division.....	5.8	2.7
New Jersey.....	31.6	51.6	Kentucky.....	AA	(NA)
Pennsylvania.....	91.2	116.9	Tennessee.....	2.2	(NA)
North Central Region.....	1,122.1	1,253.9	Alabama.....	2.2	AA
East North Central Division.....	1,080.7	1,211.5	West South Central Division.....	3.5	2.2
Ohio.....	245.6	278.1	Texas.....	2.1	1.4
Indiana.....	85.3	96.8	West Region.....	50.9	33.8
Illinois.....	107.4	122.5	Mountain Division.....	2.3	(NA)
Michigan.....	593.3	670.7	Colorado.....	1.5	(NA)
Wisconsin.....	49.0	43.4	Pacific Division.....	48.6	33.1
West North Central Division.....	41.4	42.4	Washington.....	2.9	(NA)
Minnesota.....	10.4	15.4	Oregon.....	1.9	(NA)
Iowa.....	7.7	8.1	California.....	43.8	32.5
Missouri.....	20.3	16.8			
Kansas.....	2.7	1.7	SMALL CUTTING TOOLS FOR METALWORKING MACHINERY (35451)		
South Region.....	52.8	51.5	United States.....	738.0	770.9
South Atlantic Division.....	22.5	23.2	Northeast Region.....	262.1	256.6
Maryland.....	2.1	2.1	New England Division.....	153.9	156.7
Virginia.....	1.4	(NA)	New Hampshire.....	CC	CC
West Virginia.....	AA	(NA)	Vermont.....	15.5	20.7
North Carolina.....	3.8	6.5	Massachusetts.....	96.7	85.8
South Carolina.....	AA	(NA)	Rhode Island.....	7.7	10.4
Georgia.....	4.4	4.2	Connecticut.....	26.4	34.3
Florida.....	8.5	8.3	Middle Atlantic Division.....	108.3	99.9
East South Central Division.....	22.3	20.4	New York.....	29.1	24.8
Kentucky.....	5.1	4.0	New Jersey.....	10.0	14.5
Tennessee.....	12.3	14.4	Pennsylvania.....	69.2	60.7
Alabama.....	3.3	1.7	North Central Region.....	419.7	468.6
Mississippi.....	1.5	(NA)	East North Central Division.....	413.8	460.0
West South Central Division.....	7.9	8.0	Ohio.....	92.2	103.4
Arkansas.....	1.9	2.0	Indiana.....	5.1	3.5
Texas.....	5.4	5.0	Illinois.....	83.7	77.5
West Region.....	69.5	79.8	Michigan.....	225.1	271.1
Mountain Division.....	4.9	3.5	Wisconsin.....	7.7	4.6
Colorado.....	2.7	1.8	West North Central Division.....	5.9	8.6
Arizona.....	AA	1.6	Minnesota.....	3.2	CC
Pacific Division.....	64.6	76.4	Missouri.....	2.0	BB
California.....	63.9	74.7	South Region.....	41.5	27.9
INDUSTRIAL MOLDS (35442)			South Atlantic Division.....	13.7	8.5
United States.....	640.3	446.2	North Carolina.....	BB	BB
Northeast Region.....	175.1	122.3	South Carolina.....	CC	4.2
			Florida.....	BB	AA
			East South Central Division.....	14.6	11.3
			Kentucky.....	CC	CC
			Tennessee.....	BB	BB

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SMALL CUTTING TOOLS FOR METALWORKING MACHINERY (35451)--Continued			POWER-DRIVEN HANDTOOLS, ELECTRIC (35461)		
South Region--Continued			United States.....	386.9	(NA)
West South Central Division.....	13.1	8.1	Northeast Region.....	FF	(NA)
Arkansas.....	EE	CC	New England Division.....	EE	(NA)
Texas.....	BB	AA	Massachusetts.....	CC	(NA)
West Region.....	14.6	17.8	Rhode Island.....	CC	(NA)
Pacific Division.....	EE	17.8	Connecticut.....	BB	(NA)
California.....	EE	EE	Middle Atlantic Division.....	FF	(NA)
			New York.....	EE	(NA)
			Pennsylvania.....	BB	(NA)
PRECISION MEASURING TOOLS (35452)			North Central Region.....	161.3	(NA)
United States.....	94.7	130.8	East North Central Division.....	GG	(NA)
Northeast Region.....	47.2	71.2	Ohio.....	16.6	(NA)
New England Division.....	43.8	56.6	Illinois.....	86.6	(NA)
Vermont.....	BB	CC	Michigan.....	CC	(NA)
Massachusetts.....	FF	28.1	Wisconsin.....	FF	(NA)
Rhode Island.....	14.0	EE	West North Central Division.....	EE	(NA)
Connecticut.....	BB	7.1	Minnesota.....	BB	(NA)
Middle Atlantic Division.....	3.4	14.6	Iowa.....	BB	(NA)
New York.....	BB	CC	Missouri.....	CC	(NA)
North Central Region.....	41.3	53.9	South Region.....	GG	(NA)
East North Central Division.....	FF	48.8	South Atlantic Division.....	GG	(NA)
Ohio.....	20.8	20.1	Maryland.....	GG	(NA)
Indiana.....	AA	(NA)	North Carolina.....	GG	(NA)
Illinois.....	4.9	BB	South Carolina.....	FF	(NA)
Michigan.....	11.6	21.5	East South Central Division.....	EE	(NA)
West North Central Division.....	BB	5.1	Tennessee.....	EE	(NA)
Minnesota.....	BB	BB	West Region.....	1.2	(NA)
South Region.....	BB	BB	Pacific Division.....	AA	(NA)
East South Central Division.....	BB	AA	California.....	AA	(NA)
Tennessee.....	BB	AA			
West Region.....	BB	BB	POWER-DRIVEN HANDTOOLS, PNEUMATIC AND POWDER (35462)		
Pacific Division.....	BB	BB	United States.....	217.9	(NA)
California.....	BB	BB	Northeast Region.....	82.5	(NA)
			New England Division.....	BB	(NA)
			Vermont.....	BB	(NA)
			Middle Atlantic Division.....	GG	(NA)
			New York.....	FF	(NA)
			Pennsylvania.....	FF	(NA)
OTHER ATTACHMENTS AND ACCESSORIES FOR MACHINE TOOLS (35453)			North Central Region.....	94.4	(NA)
United States.....	218.8	239.5	East North Central Division.....	GG	(NA)
Northeast Region.....	77.0	69.3	Ohio.....	46.1	(NA)
New England Division.....	53.4	49.2	Illinois.....	25.5	(NA)
Vermont.....	CC	(NA)	Michigan.....	EE	(NA)
Massachusetts.....	CC	4.6	West North Central Division.....	CC	(NA)
Rhode Island.....	BB	BB	Iowa.....	CC	(NA)
Connecticut.....	35.3	40.2	South Region.....	31.9	(NA)
Middle Atlantic Division.....	23.6	20.1	South Atlantic Division.....	EE	(NA)
New York.....	18.1	16.1	Delaware.....	CC	(NA)
New Jersey.....	3.2	2.8	South Carolina.....	CC	(NA)
Pennsylvania.....	2.3	1.3	Florida.....	AA	(NA)
North Central Region.....	130.0	154.4	West South Central Division.....	EE	(NA)
East North Central Division.....	GG	GG	Louisiana.....	AA	(NA)
Ohio.....	32.3	36.0	Texas.....	EE	(NA)
Indiana.....	11.2	14.4	West Region.....	9.1	(NA)
Illinois.....	FF	36.8	Mountain Division.....	AA	(NA)
Michigan.....	41.2	44.7	Pacific Division.....	CC	(NA)
Wisconsin.....	10.4	EE	California.....	CC	(NA)
West North Central Division.....	EE	EE			
Iowa.....	AA	(NA)	HOT ROLLING MILL MACHINERY, EXCEPT TUBE ROLLING (35471)		
Missouri.....	EE	EE	United States.....	134.7	(NA)
South Region.....	8.1	1.3	Northeast Region.....	FF	(NA)
East South Central Division.....	BB	(NA)	New England Division.....	EE	(NA)
Tennessee.....	BB	(NA)	Massachusetts.....	EE	(NA)
West South Central Division.....	BB	(NA)	Middle Atlantic Division.....	FF	(NA)
Arkansas.....	AA	(NA)	Pennsylvania.....	FF	(NA)
Texas.....	AA	(NA)			
West Region.....	3.8	14.6			
Pacific Division.....	3.8	14.6			
California.....	3.8	14.6			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HOT ROLLING MILL MACHINERY, EXCEPT TUBE ROLLING (35471)--Continued			WELDING AND CUTTING APPARATUS, EXCEPT ELECTRIC (35493)--Continued		
North Central Region.....	93.5	(NA)	South Region.....	FF	EE
East North Central Division.....	GG	(NA)	South Atlantic Division.....	EE	AA
Ohio.....	GG	(NA)	South Carolina.....	EE	(NA)
Indiana.....	CC	(NA)	Florida.....	BB	AA
Illinois.....	BB	(NA)	West South Central Division.....	EE	CC
Michigan.....	AA	(NA)	Texas.....	EE	CC
West North Central Division.....	AA	(NA)	West Region.....	BB	CC
Missouri.....	AA	(NA)	Mountain Division.....	AA	(NA)
COLD ROLLING MILL MACHINERY (35472)			Colorado.....	AA	(NA)
United States.....	52.4	(NA)	Pacific Division.....	BB	5.8
Northeast Region.....	23.3	(NA)	California.....	BB	5.8
New England Division.....	BB	(NA)			
Connecticut.....	BB	(NA)	AUTOMOTIVE MAINTENANCE EQUIPMENT (35494)		
Middle Atlantic Division.....	EE	(NA)	United States.....	111.1	(NA)
Pennsylvania.....	EE	(NA)	Northeast Region.....	12.8	(NA)
North Central Region.....	FF	(NA)	New England Division.....	BB	(NA)
East North Central Division.....	EE	(NA)	Massachusetts.....	BB	(NA)
Ohio.....	EE	(NA)	Middle Atlantic Division.....	CC	(NA)
Michigan.....	AA	(NA)	New York.....	BB	(NA)
West North Central Division.....	AA	(NA)	New Jersey.....	AA	(NA)
Kansas.....	AA	(NA)	Pennsylvania.....	BB	(NA)
South Region.....	CC	(NA)	North Central Region.....	93.2	(NA)
South Atlantic Division.....	CC	(NA)	East North Central Division.....	40.2	(NA)
West Virginia.....	CC	(NA)	Ohio.....	8.3	(NA)
West Region.....	AA	(NA)	Indiana.....	AA	(NA)
Pacific Division.....	AA	(NA)	Illinois.....	15.7	(NA)
California.....	AA	(NA)	Michigan.....	14.1	(NA)
OTHER ROLLING MILL MACHINERY, INCLUDING TUBE MILL MACHINERY (35473)			West North Central Division.....	53.0	(NA)
United States.....	55.6	(NA)	Minnesota.....	CC	(NA)
Northeast Region.....	FF	(NA)	Iowa.....	13.3	(NA)
New England Division.....	CC	(NA)	Missouri.....	FF	(NA)
Massachusetts.....	CC	(NA)	North Dakota.....	BB	(NA)
Middle Atlantic Division.....	FF	(NA)	Kansas.....	BB	(NA)
New Jersey.....	AA	(NA)	West Region.....	BB	(NA)
Pennsylvania.....	FF	(NA)	Pacific Division.....	BB	(NA)
North Central Region.....	17.3	(NA)	California.....	BB	(NA)
East North Central Division.....	16.6	(NA)	OTHER METALWORKING MACHINERY (35495)		
Ohio.....	9.5	(NA)	United States.....	154.5	(NA)
Illinois.....	BB	(NA)	Northeast Region.....	58.0	(NA)
Michigan.....	1.5	(NA)	New England Division.....	21.3	(NA)
Wisconsin.....	BB	(NA)	Maine.....	AA	(NA)
South Region.....	BB	(NA)	New Hampshire.....	BB	(NA)
East South Central Division.....	BB	(NA)	Massachusetts.....	8.3	(NA)
Tennessee.....	BB	(NA)	Connecticut.....	CC	(NA)
West Region.....	2.9	(NA)	Middle Atlantic Division.....	36.7	(NA)
Pacific Division.....	BB	(NA)	New York.....	25.3	(NA)
California.....	BB	(NA)	New Jersey.....	4.1	(NA)
WELDING AND CUTTING APPARATUS, EXCEPT ELECTRIC (35493)			Pennsylvania.....	7.3	(NA)
United States.....	93.7	69.6	North Central Region.....	84.6	(NA)
Northeast Region.....	32.2	31.2	East North Central Division.....	80.3	(NA)
Middle Atlantic Division.....	FF	FF	Ohio.....	18.9	(NA)
New York.....	BB	AA	Indiana.....	6.6	(NA)
New Jersey.....	FF	FF	Illinois.....	17.3	(NA)
Pennsylvania.....	6.7	CC	Michigan.....	23.5	(NA)
North Central Region.....	27.0	21.3	Wisconsin.....	14.0	(NA)
East North Central Division.....	14.9	14.3	West North Central Division.....	4.3	(NA)
Ohio.....	EE	7.5	Minnesota.....	2.6	(NA)
Michigan.....	BB	BB	South Region.....	3.2	(NA)
West North Central Division.....	12.1	7.0	South Atlantic Division.....	AA	(NA)
Minnesota.....	CC	CC	West South Central Division.....	AA	(NA)
Missouri.....	AA	AA	Texas.....	AA	(NA)
Kansas.....	AA	(NA)	West Region.....	8.8	(NA)
			Pacific Division.....	CC	(NA)
			California.....	CC	(NA)

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3541	Machine tools, metal-cutting types.....	1,258.5	1,113.1	1,543.9	1,793.7	1,822.0	1,907.8	925.3	592.5
35411	Boring machines.....	58.7	61.7	98.9	(S)	(S)	127.8	66.3	52.8
35412	Drilling machines.....	73.7	79.9	106.0	(S)	(S)	128.5	55.3	30.9
35413	Gear cutting and finishing machines.....	56.7	58.3	75.7	68.6	68.5	67.1	40.9	23.5
35414	Grinding and polishing machines, except gear tooth.....	168.6	170.8	236.8	274.0	265.8	270.2	144.2	91.4
35415	Lathes.....	197.6	163.6	247.0	(S)	(S)	360.5	163.4	98.6
35416	Milling machines.....	86.6	81.1	156.0	214.4	255.3	258.2	112.7	89.4
35418	Other machine tools including home workshop, laboratories, etc.....	303.1	256.5	350.5	419.1	393.9	371.9	152.4	98.3
35419	Parts for metal-cutting machine tools and rebuilt machine tools.....	242.1	206.4	230.5	(259.3)	255.4	241.0	165.5	88.7
35410	Machine tools, metal-cutting machine types, n.s.k.....	71.4	(34.8)	(42.5)	44.4	43.9	82.5	24.4	18.9
3542	Machine tools, metal-forming types.....	670.1	585.2	734.5	713.0	678.1	676.6	444.8	289.5
35421	Punching, shearing, bending, and forming machines.....	153.4	148.8	177.3	165.2	(S)	130.9	92.5	68.4
35422	Presses, including forging presses.....	183.2	184.2	241.6	239.9	232.8	261.3	141.7	79.1
35423	Other metal-forming machine tools, including forging machines.....	149.0	125.8	168.8	147.5	139.6	122.9	71.7	60.8
35424	Metal-forming machine tool parts and rebuilt machinery.....	161.5	116.6	137.1	151.0	137.8	125.7	118.2	78.2
35420	Machine tools, metal-forming types, n.s.k.....	23.0	9.8	(9.7)	(9.4)	(16.0)	35.6	20.7	3.0
3544	Special dies, tools, jigs, etc.....	2,713.5	2,182.6	2,774.6	2,610.2	2,494.1	2,520.2	1,608.1	1,320.4
35441	Special dies, tools, die sets, jigs, and fixtures.....	1,520.1	1,532.6	2,080.0	1,836.7	1,792.9	<sup>2</sup> 1,719.8	1,161.2	<sup>3</sup> 1,157.3
35442	Industrial molds.....	640.3	444.4	466.6	525.1	469.8	<sup>2</sup> 446.2	311.1	163.0
35440	Special dies, tools, jigs, and fixtures, n.s.k.....	553.1	205.6	228.0	248.4	231.4	354.2	135.9	( <sup>3</sup> )
3545	Machine tool accessories.....	1,151.4	1,007.3	1,132.1	1,288.4	1,186.8	1,222.4	731.7	470.2
35451	Small cutting tools for metalworking machinery.....	738.0	(625.9)	699.8	822.3	777.2	770.9	464.4	301.2
35452	Precision measuring tools.....	94.7	87.1	105.0	160.3	128.4	130.8	88.0	60.9
35453	Other attachments and accessories for machine tools.....	218.8	223.6	246.5	242.0	219.3	239.5	152.6	96.2
35450	Machine tool accessories, n.s.k.....	99.9	70.7	(80.8)	63.8	(63.9)	81.2	26.7	11.9
3546	Power-driven handtools.....	622.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35461	Power-driven handtools, electric.....	386.9	554.5	522.8	532.4	470.4	436.0	319.9	210.6
35462	Power-driven handtools, pneumatic powder actuated.....	217.9							
35460	Power-driven handtools, n.s.k.....	18.1							
3547	Rolling mill machinery.....	247.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35471	Hot rolling mill machinery, except tube rolling.....	134.7	242.1	298.5	301.8	309.8	330.3	222.2	252.2
35472	Cold rolling mill machinery.....	52.4							
35473	Other rolling mill machinery, including tube mill machinery.....	55.6							
35470	Rolling mill machinery, n.s.k.....	5.2	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
3549	Metalworking machinery, n.e.c.....	411.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35493	Welding and cutting apparatus, except electric.....	93.7	113.7	97.6	88.7	71.5	69.6	54.7	38.1
35494	Automotive maintenance equipment.....	111.1	118.6	108.9	87.3	74.5	58.1	47.7	44.2
35495	Other metalworking machinery.....	154.5	99.2	120.2	90.4	93.2	86.2	36.6	17.6
35490	Metalworking machinery, n.e.c., n.s.k.....	52.0	<sup>4</sup> 35.7	<sup>4</sup> (44.5)	<sup>4</sup> 37.2	<sup>4</sup> 36.9	<sup>4</sup> 47.8	<sup>4</sup> 20.9	<sup>4</sup> 17.5

(NA) Not available. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Diecasting dies (molds) are included in 1967 in product class 35442. For prior years, they were included in product class 35441.

<sup>3</sup>Product class 35440 included with product class 35441 for 1958.

<sup>4</sup>Code 35490 includes codes 35460 and 35470 prior to 1972.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3541.--MACHINE TOOLS, METAL-CUTTING TYPES					
	Materials, parts, containers, and supplies, total.....		(X)	454.3	(X)	657.3
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	40.0	15.2	58.7	19.0
331012	Sheet and strip.....	..do.....	13.7	3.2	14.1	3.2
331013	Plates.....	..do.....	32.2	8.2	36.9	7.2
331015	Structural shapes.....	..do.....	(NA)	2.2	9.0	2.7
331017	Wire and wire products.....	..do.....	(NA)	.2	(NA)	3.7
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	5.4		
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	22.6	13.1	26.7	13.7
331029	All other alloy steel mill shapes and forms.....	..do.....	1.9	2.4	3.1	3.3
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.2	.3	2.3	2.0
331050	All other stainless steel mill shapes and forms.....	..do.....	.7	2.9		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	.1	.1	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	1.9	2.0	2.5
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.5	.8	(NA)	.9
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	(NA)	.2	(NA)	.4
335152	Pipe and tube.....	..do.....	(NA)	.5	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.8	.5	1.3	1.1
335405	Extruded shapes, including extruded rod, bar, tube, etc.....	..do.....	.6	.6	.4	.4
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	.3	.2	.2
329903	Industrial diamonds.....	Carats.....	(NA)	.5	(NA)	(NA)
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.	20.1	.9	32.2	1.4
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	..do.....	69.9	43.6	160.2	76.6
332045	Steel.....	..do.....	(NA)	4.4	13.1	10.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	4.1	(NA)	8.3
336200	Copper and copper-base alloy.....	..do.....	1.1	1.2	1.6	1.8
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	4.7	4.3	8.4	6.7
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	.9	174.4	7.7
362115	Other fractional horsepower electric motors.....	..do.....	96.3	3.4		
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(NA)	16.3	110.8	21.2
	Bearings:					
356218	Ball.....	..do.....	(X)	9.6	(X)	12.1
356201	Roller.....	..do.....	(X)	3.6	(X)	5.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	226.5	(X)	<sup>3</sup> 348.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	77.0	(X)	97.7
	INDUSTRY 3542.--MACHINE TOOLS, METAL-FORMING TYPES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 253.4	(X)	256.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	32.1	12.5	39.6	10.8
331012	Sheet and strip.....	..do.....	6.3	1.2	(NA)	.9
331013	Plates.....	..do.....	91.3	17.8	137.9	20.9
331015	Structural shapes.....	..do.....	9.4	2.0	6.4	1.2
331017	Wire and wire products.....	..do.....	(NA)	.1	(NA)	.2
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	3.1	.6	.3
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	7.0	5.2	11.6	5.6
331029	All other alloy steel mill sbapes and forms.....	..do.....	2.6	1.8	3.5	1.5
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.1	.2	.6	.6
331050	All other stainless steel mill shapes and forms.....	..do.....	.4	.4		

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3542.--MACHINE TOOLS, METAL-FORMING TYPES--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms (except castings)--Continued					
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	(D)	(D)	.1	.1
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	.3	.2	.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.2	.4	.6	.6
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	.1	.2	(NA)	.1
335152	Pipe and tube.....	...do.....	(NA)	.2	(D)	(D)
	Aluminum and aluminum base alloy:					
335301	Sheet, plate, and foil.....	...do.....	(NA)	.3	.4	.4
335405	Extruded shapes, including extruded rod, bar, tube, etc.....	...do.....	(NA)	.3	(NA)	.8
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(NA)	.2	(NA)	.1
329903	Industrial diamonds.....	Carats.....	(NA)	(Z)	(NA)	(NA)
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.	(D)	(D)	20.5	.9
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....	36.5	18.1	43.5	18.7
332045	Steel.....	...do.....	11.1	8.9	23.9	12.9
336100	Aluminum and aluminum-base alloy.....	Million lb....	.7	.8	1.0	1.1
336200	Copper and copper-base alloy.....	1,000 s. tons.	2.6	2.9	2.1	2.2
346200	Iron and steel forgings <sup>1</sup> .....	...do.....	7.5	6.1	10.1	6.9
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	.9	.1	(NA)	.4
362115	Other fractional horsepower electric motors.....	...do.....	(NA)	.5	(NA)	1.4
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	(NA)	6.6	26.2	11.1
	Bearings:					
356218	Ball.....	...do.....	(X)	.9	(X)	1.5
356201	Roller.....	...do.....	(X)	2.8	(X)	1.6
970099	All other materials and components, parts, containers, and supplies consumed.....	...do.....	(X)	114.2	(X)	<sup>3</sup> 118.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	...do.....	(X)	44.8	(X)	35.2
	INDUSTRY 3544.--SPECIAL DIES, TOOLS, JIGS, AND FIXTURES					
	Materials, parts, containers, and supplies, total.....	...do.....	(X)	501.4	(X)	433.4
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	57.5	31.1	62.5	30.4
331012	Sheet and strip.....	...do.....	54.1	14.7	42.2	10.5
331013	Plates.....	...do.....	65.9	23.6	89.7	19.7
331015	Structural shapes.....	...do.....	(NA)	3.2	10.3	2.9
331017	Wire and wire products.....	...do.....	(NA)	1.8	(NA)	.8
331019	All other carbon steel mill shapes and forms.....	...do.....	8.9	6.3	5.6	3.6
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	(NA)	31.0	(NA)	24.1
331029	All other alloy steel mill shapes and forms.....	...do.....	18.0	13.5	5.2	4.6
	Stainless steel:					
331033	Sheet and strip.....	...do.....	1.1	1.7	2.4	3.4
331050	All other stainless steel mill shapes and forms.....	...do.....	1.9	3.4		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	.2	.4	.6	.5
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.2	.1	(NA)	.2
335102	Rod, bar, and mechanical wire.....	Million lb....	.8	.8	1.2	1.1
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	2.7	3.1	1.6	1.5
335152	Pipe and tube.....	...do.....	(NA)	.9	(NA)	.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	(NA)	2.7	5.8	4.3
335405	Extruded shapes, including rod, bar, pipe, tube, etc.....	...do.....	(NA)	1.5	3.5	2.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, tubing, etc.).....	...do.....	(NA)	1.5	1.9	.7
329903	Industrial diamonds.....	Carats.....	137.2	2.3	(NA)	(NA)
339915	Metal powders.....	Million lb....	.5	2.4	.2	.7
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.	(NA)	.2	(D)	(D)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3544.--SPECIAL DIES, TOOLS, JIGS, AND FIXTURES--Continued					
	Materials, parts, containers, and supplies--Continued					
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	37.2	20.0	39.5	13.7
332045	Steel.....	..do.....	5.2	4.9	18.7	11.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.7	5.1	3.9	3.3
336200	Copper and copper-base alloy.....	..do.....	.9	2.1	3.4	4.1
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	1.8	2.5	4.2	3.8
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	.1	5.8	.3
362115	Other fractional horsepower electric motors.....	..do.....	5.4	.3	4.2	.3
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(NA)	.3	2.4	.6
	Bearings:					
356218	Ball.....	}	(X)	2.5	(X)	.6
356201	Roller.....				(X)	.3
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	133.1	(X)	<sup>3</sup> 120.7
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	184.3	(X)	162.3
	INDUSTRY 3545.--MACHINE TOOL ACCESSORIES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 304.6	(X)	333.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	12.0	31.0	10.8
331012	Sheet and strip.....	..do.....	(NA)	1.1	8.5	2.0
331013	Plates.....	..do.....	3.1	1.1	5.1	1.5
331015	Structural shapes.....	..do.....	(NA)	.7	3.0	1.0
331017	Wire and wire products.....	..do.....	.8	.7	.9	.5
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	2.5	3.4	1.8
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	15.1	34.5	23.5	44.5
331029	All other alloy steel mill shapes and forms.....	..do.....	1.8	5.5	3.4	5.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.2	.2	.8	1.4
331050	All other stainless steel mill shapes and forms.....	..do.....	.1	.3		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	(D)	(D)	(NA)	.1
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	.1	(NA)	.2
335102	Rod, bar, and mechanical wire.....	Million lb....	(NA)	.4	.6	.9
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	(Z)	(Z)	(NA)	.2
335152	Pipe and tube.....	..do.....	(Z)	(Z)	(NA)	.3
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.1	.1	.3	.2
335405	Extruded shapes, including rod, bar, pipe, tube, etc.....	..do.....	.3	.4	.2	.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, tubing, etc.).....	..do.....	(NA)	.3	.1	.1
329903	Industrial diamonds.....	Mil. carats...	1.8	9.3	(NA)	(NA)
339915	Metal powders.....	Million lb....	11.8	68.0	(D)	(D)
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	-	-	(Z)	(Z)
999811	Iron and steel scrap (excluding home scrap).....	..do.....	-	-	(Z)	(Z)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	..do.....	4.7	3.0	13.2	5.9
332045	Steel.....	..do.....	(NA)	2.9	4.0	4.2
336100	Aluminum and aluminum-base alloy.....	Million lb....	.6	.9	.6	.7
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	.1	.2
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	2.9	2.5	4.7	3.8
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(D)	(D)
362115	Other fractional horsepower electric motors.....	..do.....	(NA)	.3	6.1	.3
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(NA)	.6	(NA)	1.4
	Bearings:					
356218	Ball.....		(X)	.8	(X)	.6
356201	Roller.....		(X)	.6	(X)	.2
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	107.6	(X)	<sup>3</sup> 170.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	51.1	(X)	74.2

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3546.--POWER-DRIVEN HANDTOOLS			
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 274.1
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	15.7	5.7
331012	Sheet and strip.....	..do.....	16.1	3.7
331015	Structural shapes.....	..do.....	( <sup>4</sup> )	( <sup>4</sup> )
331017	Wire and wire products.....	..do.....	.6	1.0
331019	All other carbon steel mill shapes and forms.....	..do.....	<sup>4</sup> 1.3	<sup>4</sup> .9
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	10.6	5.5
331029	All other alloy steel mill shapes and forms.....	..do.....	3.8	1.7
	Stainless steel:			
331033	Sheet and strip.....	..do.....	3.1	.9
331050	All other stainless steel mill shapes and forms.....	..do.....		
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	3.7	4.3
335790	Insulated wire and cable.....	Mil. lb. (copper content).	5.4	6.0
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	(NA)	.8
335143	Plate, sheet, and strip, including military cups and discs....	..do.....		
335152	Pipe and tube.....	..do.....		
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	( <sup>5</sup> )	( <sup>5</sup> )
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	.4	.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	<sup>5</sup> 2.6	<sup>5</sup> 1.1
329903	Industrial diamonds.....	Carats.....	(D)	(D)
339915	Metal powders.....	Million lb.....	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>			
332011	Iron (gray and malleable).....	1,000 s. tons.....	(NA)	6.0
332045	Steel.....	..do.....	2.5	4.1
336100	Aluminum and aluminum-base alloy.....	Million lb.....	42.4	26.0
336200	Copper and copper-base alloy.....	..do.....	.8	.8
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.....	(NA)	1.7
	Electric motors and generators: <sup>1</sup>			
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	15.5	.2
362115	Other fractional horsepower electric motors.....	..do.....	3,405.4	7.7
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	16.2	2.4
	Bearings:			
356218	Ball.....	..do.....	(X)	9.6
356201	Roller.....	..do.....	(X)	2.0
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	168.8
976000	Materials, parts, containers and supplies, n.s.k. <sup>2</sup> .....	..do.....	(X)	2.6
	INDUSTRY 3547.--ROLLING MILL MACHINERY			
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 104.0
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	16.1	3.9
331012	Sheet and strip.....	..do.....	5.1	.8
331013	Plates.....	..do.....	26.3	5.7
331015	Structural shapes.....	..do.....	19.3	3.9
331017	Wire and wire products.....	..do.....		
331019	All other carbon steel mill shapes and forms.....	..do.....		
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	(NA)	2.3
331029	All other alloy steel mill shapes and forms.....	..do.....		
	Stainless steel:			
331033	Sheet and strip.....	..do.....	(NA)	2.3
331050	All other stainless steel mill shapes and forms.....	..do.....		
	Copper and copper-base alloy:			
335790	Insulated wire and cable.....	Mil. lb. (copper content).	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	.1	.2
335143	Plate, sheet, and strip, including military cups and discs....	..do.....		
335152	Pipe and tube.....	..do.....		

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3547.--ROLLING MILL MACHINERY--Continued			
	Materials, parts, containers, and supplies--Continued			
329903	Industrial diamonds.....	Carats.....	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.....	53.2	1.8
	Castings (rough and semifinished): <sup>1</sup>			
332011	Iron (gray and malleable).....	...do.....	1.9	1.4
332045	Steel.....	...do.....	4.9	3.3
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	.1
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)
346200	Iron and steel forgings.....	1,000 s. tons.....	15.4	11.7
	Electric motors and generators: <sup>1</sup>			
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(NA)	.1
362115	Other fractional horsepower electric motors.....	...do.....		.6
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	.4	
	Bearings:			
356218	Ball.....	.....	(X)	.3
356201	Roller.....	.....	(X)	2.7
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	62.5
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	.9
	INDUSTRY 3549.--METALWORKING MACHINERY, N.E.C.			
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>3</sup> 137.2
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	11.4	3.8
331012	Sheet and strip.....	...do.....	14.6	3.2
331013	Plates.....	...do.....	8.7	2.1
331015	Structural shapes.....	...do.....	3.9	1.1
331017	Wire and wire products.....	...do.....	(NA)	.1
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	.8
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	...do.....	1.5	1.1
331029	All other alloy steel mill shapes and forms.....	...do.....	.2	.2
	Stainless steel:			
331033	Sheet and strip.....	...do.....	.1	.1
331050	All other stainless steel mill shapes and forms.....	...do.....	.2	.8
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	(Z)	(Z)
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	.3	.6
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	(NA)	8.5
335143	Plate, sheet, and strip, including military cups and discs....	...do.....		.4
335152	Pipe and tube.....	...do.....	.3	
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	...do.....	.2	.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.....	...do.....	.4	.4
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	.5	.4
339915	Metal powders.....	...do.....	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.....	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>			
332011	Iron (gray and malleable).....	...do.....	4.0	2.8
332045	Steel.....	...do.....	1.9	1.3
336100	Aluminum and aluminum-base alloy.....	Million lb.....	1.3	1.3
336200	Copper and copper-base alloy.....	...do.....	(NA)	1.4
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.....	.5	.5
	Electric motors and generators: <sup>1</sup>			
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(NA)	.1
362115	Other fractional horsepower electric motors.....	...do.....	33.4	1.3
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	26.2	2.6
	Bearings:			
356218	Ball.....	.....	(X)	1.1
356201	Roller.....	.....		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	69.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	29.2

See footnotes on next page.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(Footnotes for table 7A)

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
 (Z) Less than half of the unit of measure shown.

<sup>1</sup>Excludes quantities produced and consumed in the same establishment.

<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

<sup>3</sup>Includes cost for materials indicated by the symbol (D).

<sup>4</sup>Data for material code 331015, structural shapes, are included with material code 331019, all other carbon steel mill shapes and forms.

<sup>5</sup>Data for material code 335301, aluminum sheet, plate, and foil, are included in material code 335008, all other aluminum mill shapes and forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3541.--MACHINE TOOLS, METAL-CUTTING TYPES					
	Purchased fuels and electric energy.....		(X)	15.9	(X)	14.4
	Purchased fuels, total.....		(X)	5.7	(X)	4.8
121005	Coal.....	1,000 s. tons.....	25.8	.3	48.8	.4
331212	Coke.....	.....do.....	(S)	.2	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	211.5	.9	276.7	.9
291141	Distillate.....	.....do.....	132.0	.6	134.3	.5
291151	Residual.....	.....do.....	79.6	.3	142.4	.4
131300	Natural gas.....	Billion ft³.....	4.0	2.3	3.6	2.3
960011	Other fuels.....		(X)	1.1	(X)	.7
975000	Fuels, n.s.k.....		(X)	.8	(X)	.5
960012	Purchased electric energy.....	Million kWh.....	686.4	10.2	677.4	9.6
	Quantity of electric energy generated less quantity sold....	.....do.....	(S)	-	10.3	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.1	-	3.0	-
	INDUSTRY 3542.--MACHINE TOOLS, METAL-FORMING TYPES					
	Purchased fuels and electric energy.....		(X)	6.3	(X)	(NA)
	Purchased fuels, total.....		(X)	2.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	.6	(Z)	(NA)	(NA)
331212	Coke.....	.....do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	90.4	.4	(NA)	(NA)
291141	Distillate.....	.....do.....	45.2	.2	(NA)	(NA)
291151	Residual.....	.....do.....	45.3	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft³.....	1.9	1.0	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	280.6	4.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	.....do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-	(NA)	(NA)
	INDUSTRY 3544.--SPECIAL DIES, TOOLS, JIGS, AND FIXTURES					
	Purchased fuels and electric energy.....		(X)	27.6	(X)	21.2
	Purchased fuels, total.....		(X)	8.5	(X)	6.6
121005	Coal.....	1,000 s. tons.....	24.3	.3	16.0	.1
331212	Coke.....	.....do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	190.9	.8	133.2	.6
291141	Distillate.....	.....do.....	124.2	.6	64.7	.4
291151	Residual.....	.....do.....	66.8	.2	68.5	.2
131300	Natural gas.....	Billion ft³.....	6.2	3.4	3.2	2.1
960011	Other fuels.....		(X)	1.4	(X)	.8
975000	Fuels, n.s.k.....		(X)	2.5	(X)	2.9
960012	Purchased electric energy.....	Million kWh.....	1,168.9	19.1	841.8	14.6
	Quantity of electric energy generated less quantity sold....	.....do.....	(S)	-	.7	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.1	-	3.9	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3545.--MACHINE TOOL ACCESSORIES					
	Purchased fuels and electric energy.....		(X)	12.1	(X)	11.8
	Purchased fuels, total.....		(X)	3.4	(X)	3.5
121005	Coal.....	1,000 s. tons.....	.9	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	172.2	.8	(NA)	(NA)
291141	Distillate.....	...do.....	90.7	.4	(NA)	(NA)
291151	Residual.....	...do.....	81.5	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.4	1.3	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	619.8	8.7	580.9	8.3
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	.8	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.3	-	3.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.





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# Special Industry Machinery, Except Metalworking Machinery

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# EXPLANATORY TEXT

## SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3551—Food Products Machinery
- 3552—Textile Machinery
- 3553—Woodworking Machinery
- 3554—Paper Industries Machinery
- 3555—Printing Trades Machinery and Equipment\*
- 3559—Special Industry Machinery, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3551.—FOOD PRODUCTS MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries in the preparation, canning, or packaging of food products; and parts and attachments for such machinery.

Establishments primarily engaged in manufacturing industrial refrigeration machinery are classified in SIC group 385. For a detailed list of products of industry 3551, refer to table 6A, product codes 35511 15 to 35514 91.

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\*Note that the "short title" for this industry is used throughout the report.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Food Products Machinery Industry in 1972 totaled \$1 billion. This included shipments of food products machinery (primary products) valued at \$772 million, shipments of other products (secondary products) valued at \$89 million, and miscellaneous receipts (mainly resales) of \$139 million.

Shipments of food products machinery (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated platework (boiler shops) (\$8 million) and refrigeration and heating equipment (\$6 million).

Shipments of food products machinery (primary products) from establishments classified in industry 3551 in 1972 represented 89 percent (coverage ratio) of these products valued at \$867 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping food products machinery consisted mainly of industry 3569, General Industrial Machinery, N.E.C., (\$6 million) and industry 3523, Farm Machinery and Equipment (\$5 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3551, these establishments accounted for 8 percent of value of shipments.

## INDUSTRY 3552.—TEXTILE MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for the textile industries, including parts, attachments, and accessories.

Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636. For a detailed list of products of industry 3552, refer to table 6A, product codes 35521 15 to 35522 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.



Value of shipments and other receipts of the Textile Machinery Industry in 1972 totaled \$823 million. This included shipments of textile machinery (primary products) valued at \$709 million, shipments of other products (secondary products) valued at \$43 million, and miscellaneous receipts (mainly resales) of \$71 million.

Shipments of textile machinery (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of gray iron castings (\$8 million).

Shipments of textile machinery (primary products) from establishments classified in industry 3552 in 1972 represented 96 percent (coverage ratio) of these products valued at \$738 million shipped by all industries. In 1967, the coverage ratio was 95 percent. Other industries shipping textile machinery consisted mainly of industry 3441, Fabricated Structural Metal (\$4.2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3552, these establishments accounted for 6 percent of value of shipments.

#### INDUSTRY 3553.—WOODWORKING MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers.

Establishments primarily engaged in manufacturing handtools such as planes, axes, drawknives, and handsaws are classified in SIC group 342; and portable power-driven handtools in industry 3546. For a detailed list of products of industry 3553, refer to table 6A, product codes 35531 12 to 35532 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Woodworking Machinery Industry in 1972 totaled \$488 million. This included shipments of woodworking machinery (primary products) valued at \$402 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts (mainly resales) of \$41 million.

Shipments of woodworking machinery (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of internal combustion engines, n.e.c., (\$5.0 million) and machine tools, metal-cutting types, (\$4 million).

Shipments of woodworking machinery (primary products) from establishments classified in industry 3553 in 1972 represented 91 percent (coverage ratio) of these products valued at \$442 million shipped by all industries. In 1967, the coverage ratio was 87 percent. Other industries shipping woodworking machinery consisted mainly of industry 3541, Machine Tools, Metal-Cutting Types, (\$15 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3553, these establishments accounted for 3 percent of value of shipments.

#### INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for the pulp, paper, and paper products industries.

Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555. For a detailed list of products of industry 3554, refer to table 6A, product codes 35540 11 to 35540 81.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Paper Industries Machinery Industry in 1972 totaled \$448 million. This included shipments of paper industries machinery (primary products) valued at \$330 million, shipments of other products (secondary products) valued at \$60 million, and miscellaneous receipts (mainly resales) of \$58 million.

Shipments of paper industries machinery (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of paper industries machinery (primary products) from establishments classified in industry 3554 in 1972 represented 86 percent (coverage ratio) of these products

valued at \$381 million shipped by all industries. In 1967, the coverage ratio was also 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3554, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3555.—PRINTING TRADES MACHINERY (Short Title)**

This industry comprises establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades.

Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552. For a detailed list of products of industry 3555, refer to table 6A, product codes 35551 21 to 35555 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Printing Trades Machinery Industry in 1972 totaled \$824 million. This included shipments of printing trades machinery (primary products) valued at \$670 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) of \$134 million.

Shipments of printing trades machinery (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 98 percent. Secondary products shipped by this industry in 1972 consisted mainly of fabricated rubber products, n.e.c. (\$4 million).

Shipments of printing trades machinery (primary products) from establishments classified in industry 3555 in 1972 represented 91 percent (coverage ratio) of these products valued at \$737 million shipped by all industries. In 1967, the coverage ratio was 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics

constructed from industry averages. For industry 3555, these establishments accounted for 6 percent of value of shipments.

#### **INDUSTRY 3559.—SPECIAL INDUSTRY MACHINERY, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing special industry machinery, not elsewhere classified, such as smelting and refining equipment, cement-making, clayworking, cotton ginning, glassmaking, hatmaking, incandescent lampmaking, leatherworking, paintmaking, rubberworking, cigar and cigarette making, tobacco working, shoemaking, and stoneworking machinery. For a detailed list of products of industry 3559, refer to table 6A, product codes 35591 11 to 35595 93.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Special Industry Machinery, N.E.C., Industry in 1972 totaled \$2,604 million. This included shipments of special industry machinery, n.e.c., (primary products) valued at \$1,924 million, shipments of other products (secondary products) valued at \$421 million, and miscellaneous receipts (mainly resales) of \$259 million.

Shipments of special industry machinery, n.e.c., (primary products) in 1972 represented 82 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 82 percent. Secondary products shipped by this industry in 1972 consisted mainly of general industrial machinery, n.e.c., (\$28 million); valve and pipe fittings (\$12 million); and special dies, tools, jigs, and fixtures (\$12 million).

Shipments of special industry machinery, n.e.c., (primary products) from establishments classified in industry 3559 in 1972 represented 81 percent (coverage ratio) of these products valued at \$2,367 million shipped by all industries. In 1967, the coverage ratio was also 81 percent. Other industries shipping special industry machinery, n.e.c., consisted mainly of industry 3569, General Industrial Machinery, N.E.C., (\$23 million) and industry 3423, Hand and Edge Tools, N.E.C. (16 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3559, these establishments accounted for 4 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3551.--FOOD PRODUCTS MACHINERY															
1972 Census.....	688	290	31.9	315.9	20.6	40.7	179.7	605.2	411.7	1,000.1	21.8	(NA)	253.1	90	89
1971 ASM .....	(NA)	(NA)	33.0	288.7	21.2	42.3	161.9	551.6	360.7	922.7	18.7	235.9	222.4	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	32.9	286.3	21.7	44.7	165.0	548.7	371.4	918.7	*36.5	217.8	230.3	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	33.5	280.2	22.4	46.1	163.8	550.2	355.4	890.8	16.5	251.2	224.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	33.0	258.8	21.9	44.2	149.1	512.0	336.1	840.4	17.9	242.6	205.1	(NA)	(NA)
1967 Census.....	642	280	32.6	249.4	22.0	45.2	147.2	502.9	337.9	830.2	22.0	230.7	198.0	88	86
1966 ASM .....	(NA)	(NA)	35.4	250.2	23.9	50.0	149.9	519.7	328.5	827.3	18.3	(NA)	194.2	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	33.5	231.6	23.4	47.6	136.2	462.8	294.6	750.3	14.3	(NA)	170.0	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	32.6	216.9	20.8	43.9	122.6	435.8	287.6	715.0	*20.3	213.1	162.2	(NA)	(NA)
1963 Census.....	681	279	31.7	205.4	21.0	43.3	118.0	380.4	255.3	640.5	11.0	197.2	154.1	86	87
1962 ASM .....	(NA)	(NA)	31.9	201.5	21.7	45.6	115.1	365.1	260.8	626.2	11.8	188.3	155.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	30.9	187.9	20.9	42.3	103.8	259.7	250.5	588.0	10.5	(NA)	162.9	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	30.5	181.3	20.3	42.7	103.6	337.8	227.8	557.3	8.8	(NA)	135.5	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	28.7	165.0	19.1	38.8	93.4	300.6	205.9	501.1	9.3	(NA)	129.3	(NA)	(NA)
1958 Census .....	672	240	27.7	152.5	18.2	36.3	86.8	268.6	185.8	456.2	7.8	(NA)	119.4	87	84
INDUSTRY 3552.--TEXTILE MACHINERY															
1972 Census .....	578	224	32.7	270.6	23.3	47.4	168.3	487.6	339.6	822.8	27.6	(NA)	230.9	94	96
1971 ASM .....	(NA)	(NA)	32.1	253.1	22.8	45.4	157.6	434.6	323.2	767.5	23.9	345.0	221.6	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	37.2	277.5	26.7	55.5	175.9	477.5	337.1	806.8	22.0	337.8	233.4	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	38.8	282.0	23.4	60.6	178.9	473.9	353.5	812.6	24.0	320.1	228.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	37.3	254.7	27.1	58.7	164.0	432.6	303.3	720.2	24.0	304.5	202.8	(NA)	(NA)
1967 Census.....	560	239	39.7	253.3	29.4	62.5	169.1	404.1	309.2	711.7	22.2	287.3	185.1	94	95
1966 ASM .....	(NA)	(NA)	42.7	268.4	31.9	70.9	181.6	455.5	375.3	820.3	25.2	(NA)	193.6	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	41.2	247.2	30.8	68.1	166.3	408.2	318.6	707.9	20.2	(NA)	171.3	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	37.5	212.1	28.2	59.0	142.1	359.4	259.2	605.2	*15.0	268.2	145.2	(NA)	(NA)
1963 Census.....	561	216	36.0	196.4	26.9	56.1	129.1	314.2	232.3	542.7	13.9	255.1	135.3	93	94
1962 ASM .....	(NA)	(NA)	38.7	201.7	27.6	60.7	137.7	347.0	230.7	574.9	*15.3	242.6	134.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	37.7	192.8	26.5	58.7	129.8	317.8	214.7	530.3	*13.0	(NA)	131.4	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	39.3	188.3	28.6	61.6	131.6	325.2	219.4	538.5	*11.4	(NA)	123.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	35.8	173.6	27.6	58.2	120.6	271.3	186.9	445.5	6.8	(NA)	115.4	(NA)	(NA)
1958 Census .....	553	212	34.3	154.5	25.6	51.2	101.9	214.2	154.2	376.3	8.5	(NA)	99.2	87	94
INDUSTRY 3553.--WOODWORKING MACHINERY															
1972 Census .....	241	108	13.5	122.0	9.3	19.0	72.9	280.3	217.0	488.0	12.3	(NA)	100.4	90	91
1971 ASM .....	(NA)	(NA)	13.3	112.4	9.0	18.0	65.7	244.9	167.6	413.6	8.9	113.3	87.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	13.0	103.9	8.7	17.6	61.0	235.3	149.1	384.6	8.6	104.6	82.2	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	14.2	108.1	9.9	20.3	65.9	242.5	166.0	400.9	8.6	103.8	86.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	13.4	93.7	9.3	19.1	56.4	216.6	142.3	356.5	*7.7	100.7	75.7	(NA)	(NA)
1967 Census.....	239	88	12.7	83.9	8.8	17.6	50.4	192.8	127.1	314.4	8.2	91.6	72.1	83	87
1966 ASM .....	(NA)	(NA)	16.3	107.7	12.1	25.5	68.9	230.8	164.1	382.5	9.3	(NA)	84.2	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	14.3	91.4	10.5	21.5	58.4	199.7	139.5	339.5	*10.4	(NA)	69.6	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	14.0	89.1	10.5	21.8	59.4	181.7	121.9	299.9	5.3	106.8	73.7	(NA)	(NA)
1963 Census.....	249	91	12.1	72.9	8.7	17.7	45.9	147.0	110.1	252.8	4.7	105.1	57.6	77	81
1962 ASM .....	(NA)	(NA)	12.3	69.6	9.1	16.9	42.2	141.1	111.5	247.4	*4.6	102.0	47.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	10.9	62.1	7.8	14.7	37.1	113.5	88.3	213.0	*7.6	(NA)	44.6	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	11.5	62.4	8.2	15.9	38.3	129.0	92.6	224.4	*3.0	(NA)	49.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	13.1	69.3	9.1	18.4	43.6	146.4	106.8	245.9	5.2	(NA)	61.7	(NA)	(NA)
1958 Census .....	(NA)	(NA)	12.2	63.4	8.0	15.9	36.9	112.9	88.5	214.4	6.9	(NA)	51.0	78	86
INDUSTRY 3554.--PAPER INDUSTRIES MACHINERY															
1972 Census.....	218	109	15.3	159.0	9.0	18.7	80.8	254.0	193.7	447.8	8.3	(NA)	115.2	85	86
1971 ASM .....	(NA)	(NA)	17.0	155.9	9.7	19.6	78.5	268.3	231.6	504.4	10.0	211.5	136.5	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	18.5	164.1	10.7	22.5	81.1	294.7	246.1	535.2	13.5	210.2	140.4	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	20.9	178.7	12.6	27.2	96.3	327.0	259.4	575.3	12.6	215.9	144.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	19.8	165.3	13.4	28.0	106.1	291.4	243.7	548.6	9.5	185.6	121.2	(NA)	(NA)
1967 Census.....	220	110	21.3	172.5	14.6	31.1	111.6	283.4	265.5	551.4	18.6	184.9	138.1	92	86
1966 ASM .....	(NA)	(NA)	20.2	162.0	14.0	30.1	102.0	262.6	256.5	502.8	18.7	(NA)	135.6	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	20.1	153.2	14.1	30.2	95.7	242.7	245.7	483.9	12.2	(NA)	116.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	19.2	137.2	13.5	28.3	87.7	222.1	219.8	430.1	14.2	138.0	115.0	(NA)	(NA)
1963 Census.....	217	92	18.6	130.6	12.9	27.2	82.3	217.5	196.5	403.9	10.3	128.5	103.2	88	90
1962 ASM .....	(NA)	(NA)	19.1	128.5	13.3	27.4	78.2	194.1	203.2	398.6	*9.6	119.5	98.1	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	18.6	117.9	12.7	25.4	70.4	188.0	182.3	365.0	*9.4	(NA)	99.0	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	18.4	117.5	12.9	27.2	73.6	191.0	202.3	380.0	(S)	(NA)	94.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	16.8	97.4	12.0	24.7	60.7	150.2	167.8	333.3	7.0	(NA)	72.7	(NA)	(NA)
1958 Census .....	202	97	15.7	89.9	11.4	22.7	58.2	123.8	155.6	310.2	4.8	(NA)	85.6	93	91

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3555.--PRINTING TRADES MACHINERY															
1972 Census.....	574	173	23.9	249.4	15.3	30.3	137.3	503.6	317.2	823.5	16.1	(NA)	243.6	97	91
1971 ASM .....	(NA)	(NA)	23.7	223.5	14.6	29.5	125.8	406.0	287.8	708.6	11.9	270.4	249.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	27.1	244.3	17.9	37.3	147.1	469.0	310.6	755.2	15.2	270.1	257.8	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	30.4	266.8	21.1	43.7	166.9	483.9	358.8	827.7	17.3	263.0	243.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	32.2	267.0	21.6	44.7	160.6	516.7	375.6	870.1	33.3	266.6	240.6	(NA)	(NA)
1967 Census.....	522	165	29.2	239.6	20.1	42.2	149.2	458.7	324.8	752.3	32.9	235.0	217.2	98	94
1966 ASM .....	(NA)	(NA)	27.1	213.6	18.6	39.7	134.7	399.2	262.9	649.1	15.2	(NA)	171.0	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	25.5	188.5	17.9	38.1	122.6	345.8	229.1	565.0	20.9	(NA)	152.2	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	23.5	170.9	16.4	35.2	111.2	311.4	199.9	502.9	8.3	171.9	142.1	(NA)	(NA)
1963 Census.....	490	136	23.0	159.4	16.4	34.3	104.4	285.9	170.7	448.4	8.9	164.0	129.2	95	92
1962 ASM .....	(NA)	(NA)	23.6	159.9	16.5	34.4	99.9	288.5	166.6	460.0	*13.7	152.7	112.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	23.2	151.0	16.3	33.3	96.8	270.1	159.6	420.8	9.6	(NA)	111.7	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	22.2	143.0	15.6	32.5	92.3	246.7	151.5	399.4	10.2	(NA)	109.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	20.8	128.0	14.6	31.0	82.2	220.2	128.0	342.9	5.8	(NA)	101.8	(NA)	(NA)
1958 Census .....	442	119	21.5	119.6	15.3	30.0	78.0	188.9	111.7	309.8	8.5	(NA)	97.0	95	92
INDUSTRY 3559.--SPECIAL INDUSTRY MACHINERY, N.E.C.															
1972 Census.....	1,382	523	72.2	730.4	44.9	91.1	392.1	1,587.1	1,090.1	2,603.9	73.8	(NA)	639.2	81	81
1971 ASM .....	(NA)	(NA)	66.5	623.4	41.5	83.0	344.8	1,044.7	797.6	1,869.7	57.0	703.0	485.7	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	71.2	629.6	45.6	93.3	360.7	1,124.2	891.0	1,991.0	61.0	681.2	503.5	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	70.7	603.0	44.7	93.9	339.4	1,240.4	887.9	2,076.4	51.5	606.2	478.0	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	71.2	588.2	44.6	94.3	323.6	1,090.0	853.5	1,951.6	50.3	602.0	450.8	(NA)	(NA)
1967 Census.....	1,129	486	71.3	571.2	46.1	97.8	323.0	1,038.4	818.1	1,833.0	75.4	567.0	447.4	82	81
1966 ASM .....	(NA)	(NA)	69.5	536.1	46.7	103.9	322.5	981.7	790.1	1,731.2	68.6	(NA)	403.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	61.2	440.2	41.3	90.5	269.8	805.0	639.3	1,409.8	41.1	(NA)	311.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	55.2	381.4	38.3	81.3	235.9	699.8	518.2	1,203.0	*35.2	345.8	264.5	(NA)	(NA)
1963 Census.....	1,092	388	50.2	330.1	34.1	70.9	199.4	572.2	443.9	1,015.0	22.5	323.0	235.8	83	74
1962 ASM .....	(NA)	(NA)	48.9	313.6	34.0	68.3	189.3	527.6	433.9	961.7	17.7	309.4	226.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	50.7	314.0	35.0	68.9	187.4	512.5	435.2	960.6	20.0	(NA)	228.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	53.4	323.0	36.8	75.5	197.0	532.6	436.7	955.9	21.6	(NA)	234.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	51.3	299.2	35.3	72.5	182.9	494.8	398.3	873.6	17.2	(NA)	229.9	(NA)	(NA)
1958 Census .....	1,048	388	50.8	273.7	34.0	67.3	163.5	431.1	320.1	761.1	17.4	(NA)	204.2	83	77

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3551	Industry 3552	Industry 3553	Industry 3554	Industry 3555	Industry 3559
1972.....	636	535	229	203	523	1,310
1967.....	611	524	232	206	485	1,085
1963.....	649	529	245	204	463	1,074

(NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3551.--FOOD PRODUCTS MACHINERY											
1972 Census.....	9,903	(NA)	65	1,976	4.42	.41	.73	(NA)	18,972	52	14.87
1971 ASM.....	8,748	7,150	64	1,995	3.83	.39	.70	.26	16,715	52	13.04
1970 ASM.....	8,702	6,620	66	2,060	3.69	.40	.72	.24	16,678	52	12.28
1969 ASM.....	8,364	7,500	67	2,058	3.55	.40	.71	.28	16,424	51	11.93
1968 ASM.....	7,842	7,350	66	2,018	3.37	.40	.71	.29	15,515	51	11.58
1967 Census.....	7,662	7,080	68	2,054	3.26	.41	.71	.28	15,449	50	11.13
1966 ASM.....	7,063	(NA)	68	2,090	3.00	.40	.70	(NA)	14,674	48	10.39
1965 ASM.....	6,906	(NA)	70	2,030	2.86	.39	.70	(NA)	13,797	50	9.73
1964 ASM.....	6,649	6,540	64	2,110	2.79	.40	.71	.30	13,358	50	9.93
1963 Census.....	6,482	6,220	66	2,059	2.73	.40	.72	.31	12,006	54	8.79
1962 ASM.....	6,307	5,900	68	2,102	2.52	.42	.74	.30	11,431	55	8.01
1961 ASM.....	6,075	(NA)	68	2,024	2.45	.43	.75	(NA)	11,626	52	8.50
1960 ASM.....	5,941	(NA)	67	2,103	2.42	.41	.73	(NA)	11,070	54	7.91
1959 ASM.....	5,752	(NA)	67	2,025	2.41	.41	.74	(NA)	10,481	55	7.75
1958 Census.....	5,503	(NA)	66	1,995	2.39	.41	.74	(NA)	9,693	57	7.40
INDUSTRY 3552.--TEXTILE MACHINERY											
1972 Census.....	8,275	(NA)	71	2,034	3.55	.41	.74	(NA)	14,911	55	10.29
1971 ASM.....	7,885	7,630	71	1,991	3.46	.42	.75	.45	13,539	58	9.57
1970 ASM.....	7,460	9,100	72	2,079	3.17	.42	.76	.42	12,836	58	8.60
1969 ASM.....	7,268	8,250	60	2,134	2.95	.44	.78	.39	12,214	60	7.82
1968 ASM.....	6,828	8,160	73	2,166	2.79	.42	.77	.42	11,598	59	7.37
1967 Census.....	6,382	7,240	74	2,127	2.70	.43	.79	.40	10,181	63	6.46
1966 ASM.....	6,287	(NA)	75	2,223	2.56	.46	.78	(NA)	10,672	59	6.42
1965 ASM.....	5,995	(NA)	75	2,212	2.44	.45	.80	(NA)	9,899	61	5.99
1964 ASM.....	5,651	7,150	75	2,091	2.41	.43	.78	.44	9,574	59	6.09
1963 Census.....	5,454	7,090	75	2,090	2.30	.43	.79	.47	8,727	63	5.60
1962 ASM.....	5,214	6,270	71	2,203	2.27	.40	.75	.42	8,971	58	5.71
1961 ASM.....	5,117	(NA)	70	2,212	2.21	.40	.77	(NA)	8,432	61	5.41
1960 ASM.....	4,788	(NA)	73	2,149	2.14	.41	.76	(NA)	8,271	58	5.28
1959 ASM.....	4,854	(NA)	77	2,106	2.07	.42	.78	(NA)	7,586	64	4.66
1958 Census.....	4,504	(NA)	75	1,999	1.99	.41	.82	(NA)	6,243	72	4.18
INDUSTRY 3553.--WOODWORKING MACHINERY											
1972 Census.....	9,385	(NA)	69	2,043	3.84	.44	.69	(NA)	20,763	44	14.75
1971 ASM.....	8,451	8,520	68	2,000	3.65	.41	.68	.27	18,414	46	13.61
1970 ASM.....	7,992	8,050	67	2,023	3.47	.39	.66	.27	18,100	44	13.37
1969 ASM.....	7,613	7,310	70	2,051	3.25	.41	.68	.26	17,077	45	11.95
1968 ASM.....	6,993	7,510	69	2,054	2.95	.40	.66	.28	16,164	43	11.34
1967 Census.....	6,621	7,210	69	2,003	2.86	.40	.67	.29	15,216	44	10.95
1966 ASM.....	6,601	(NA)	74	2,107	2.70	.43	.71	(NA)	14,148	47	9.03
1965 ASM.....	6,387	(NA)	73	2,050	2.71	.41	.68	(NA)	13,955	46	9.28
1964 ASM.....	6,360	7,630	75	2,076	2.73	.41	.70	.36	12,973	49	8.35
1963 Census.....	6,049	8,690	72	2,024	2.60	.44	.72	.42	12,192	50	8.32
1962 ASM.....	5,652	8,290	74	1,856	2.50	.45	.73	.41	11,462	49	8.35
1961 ASM.....	5,705	(NA)	71	1,895	2.52	.41	.71	(NA)	10,426	55	7.70
1960 ASM.....	5,421	(NA)	71	1,954	2.40	.41	.69	(NA)	11,206	48	8.09
1959 ASM.....	5,293	(NA)	70	2,014	2.37	.43	.72	(NA)	11,180	47	7.95
1958 Census.....	5,190	(NA)	66	1,984	2.31	.41	.71	(NA)	9,243	56	7.08
INDUSTRY 3554.--PAPER INDUSTRIES MACHINERY											
1972 Census.....	10,392	(NA)	59	2,078	4.32	.43	.79	(NA)	16,601	63	13.58
1971 ASM.....	9,171	12,440	57	2,021	4.05	.46	.77	.42	15,782	58	13.69
1970 ASM.....	8,870	11,360	58	2,103	3.60	.46	.77	.39	15,930	56	13.10
1969 ASM.....	8,550	10,330	60	2,159	3.54	.45	.76	.38	15,646	55	12.02
1968 ASM.....	8,348	9,370	68	2,090	3.79	.44	.75	.34	14,717	57	10.41
1967 Census.....	8,085	8,680	69	2,130	3.58	.48	.79	.34	13,280	61	9.10
1966 ASM.....	8,006	(NA)	69	2,146	3.38	.51	.83	(NA)	12,975	62	8.72
1965 ASM.....	7,613	(NA)	70	2,137	3.17	.51	.82	(NA)	12,059	63	8.04
1964 ASM.....	7,128	7,190	70	2,098	3.10	.51	.83	.32	11,539	62	7.86
1963 Census.....	7,020	6,910	69	2,109	3.02	.49	.81	.32	11,689	60	7.99
1962 ASM.....	6,730	6,260	69	2,065	2.86	.51	.83	.30	10,164	66	7.09
1961 ASM.....	6,338	(NA)	68	1,994	2.77	.50	.82	(NA)	10,102	63	7.41
1960 ASM.....	6,370	(NA)	70	2,111	2.71	.53	.84	(NA)	10,361	61	7.03
1959 ASM.....	5,803	(NA)	72	2,054	2.46	.50	.80	(NA)	8,946	65	6.09
1958 Census.....	5,720	(NA)	72	2,001	2.56	.50	.79	(NA)	7,876	73	5.45

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials end payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3555.--PRINTING TRADES MACHINERY											
1972 Census.....	10,435	(NA)	64	1,980	4.53	.39	.69	(NA)	21,071	50	16.62
1971 ASM.....	9,430	11,410	62	2,021	4.26	.41	.72	.38	17,131	55	13.76
1970 ASM.....	9,015	9,970	66	2,084	3.94	.41	.73	.36	17,306	52	12.57
1969 ASM.....	8,776	8,650	69	2,071	3.82	.43	.76	.32	15,918	55	11.07
1968 ASM.....	8,292	8,280	67	2,069	3.59	.43	.74	.31	16,047	52	11.56
1967 Census.....	8,214	8,050	69	2,095	3.53	.43	.75	.31	15,724	52	10.87
1966 ASM.....	7,881	(NA)	69	2,132	3.39	.41	.73	(NA)	14,728	54	10.05
1965 ASM.....	7,382	(NA)	70	2,122	3.22	.41	.74	(NA)	13,542	55	9.09
1964 ASM.....	7,280	7,310	70	2,150	3.16	.40	.74	.34	13,265	55	8.86
1963 Census.....	6,945	7,130	72	2,085	3.05	.38	.74	.37	12,456	56	8.34
1962 ASM.....	6,763	6,470	70	2,079	2.91	.36	.71	.33	12,202	55	8.39
1961 ASM.....	6,521	(NA)	70	2,046	2.90	.38	.74	(NA)	11,664	56	8.10
1960 ASM.....	6,431	(NA)	70	2,092	2.84	.38	.74	(NA)	11,092	58	7.58
1959 ASM.....	6,167	(NA)	70	1,122	2.65	.37	.75	(NA)	10,606	58	7.10
1958 Census.....	5,574	(NA)	71	1,964	2.60	.36	.75	(NA)	8,804	63	6.30
INDUSTRY 3559.--SPECIAL INDUSTRY MACHINERY, N.E.C.											
1972 Census.....	10,116	(NA)	62	2,029	4.30	.42	.70	(NA)	21,982	46	17.42
1971 ASM.....	9,374	10,570	62	2,000	4.15	.43	.76	.38	15,710	60	12.59
1970 ASM.....	8,843	9,570	64	2,046	3.87	.45	.76	.25	15,789	56	12.05
1969 ASM.....	8,529	8,570	63	2,101	3.61	.43	.72	.29	17,545	49	13.21
1968 ASM.....	8,261	8,460	63	2,114	3.43	.44	.74	.31	15,309	54	11.56
1967 Census.....	8,017	7,950	65	2,118	3.30	.45	.76	.31	14,573	55	10.62
1966 ASM.....	7,712	(NA)	67	2,225	3.10	.46	.77	(NA)	14,121	55	9.45
1965 ASM.....	7,198	(NA)	67	2,193	2.98	.45	.77	(NA)	13,162	55	8.90
1964 ASM.....	6,909	6,260	69	2,125	2.90	.43	.75	.29	12,676	55	8.61
1963 Census.....	6,573	6,430	68	2,082	2.81	.44	.76	.32	11,393	58	8.07
1962 ASM.....	6,408	6,330	70	2,008	2.77	.45	.78	.32	10,782	59	7.73
1961 ASM.....	6,197	(NA)	69	1,969	2.72	.45	.78	(NA)	10,115	61	7.44
1960 ASM.....	6,043	(NA)	69	2,054	2.61	.46	.79	(NA)	9,964	61	7.05
1959 ASM.....	5,383	(NA)	69	2,058	2.52	.46	.80	(NA)	9,654	60	6.82
1958 Census.....	5,382	(NA)	67	1,977	2.43	.42	.78	(NA)	8,478	63	6.40

(NA) Not available.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3551-- FODD PRODUCTS MACHINERY													
UNITED STATES. . . . .	688	290	31.9	315.9	20.6	40.7	179.7	605.2	411.7	1 000.1	21.8	32.6	502.9
NORTHEAST REGION. . . . . E1	151	53	6.0	59.2	3.8	7.7	33.0	106.6	65.9	172.5	4.2	5.6	81.7
NEW ENGLAND DIVISION. . . . .	31	10	2.1	20.9	1.2	2.6	11.1	40.1	22.2	61.4	1.7	1.9	32.7
MASSACHUSETTS. . . . . E1	18	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	20.0
CONNECTICUT. . . . .	8	4	.6	6.3	.4	.9	3.9	10.8	6.2	17.0	.2	.7	12.5
MIDDLE ATLANTIC DIVISION. . . . . E1	120	43	3.9	38.3	2.6	5.2	21.9	66.6	43.7	111.2	2.4	3.6	49.0
NEW YDRK. . . . . E2	59	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY. . . . . E2	28	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
PENNSYLVANIA. . . . .	33	15	1.3	12.7	.9	1.7	7.2	21.8	14.1	35.5	.8	1.1	12.6
NDRTH CENTRAL REGION. . . . .	255	124	15.1	154.2	9.5	19.2	85.8	301.8	208.2	503.3	8.4	16.4	278.9
EAST NORTH CENTRAL DIVISION. . . . .	186	94	12.3	127.1	7.7	15.7	71.4	246.2	171.2	411.7	7.0	13.3	233.7
OHID. . . . .	42	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	51.2
INOIANA. . . . . E2	18	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	14.1
ILLINDIS. . . . .	72	39	3.9	41.6	2.4	4.7	21.8	74.7	54.9	128.2	2.4	5.1	66.9
MICHIGAN. . . . .	17	6	1.4	17.1	.8	1.6	9.2	25.9	17.0	43.5	.7	2.1	66.4
WISCONSIN. . . . .	37	18	3.0	27.4	2.1	4.3	18.2	49.3	32.8	78.5	2.1	2.4	35.1
WEST NDRTH CENTRAL DIVISION. . . . .	69	30	2.7	27.2	1.7	3.5	14.4	55.6	37.0	91.6	1.4	3.1	45.2
MINNESOTA. . . . .	22	8	.5	4.7	.3	.6	2.3	9.4	10.6	19.5	.3	.8	(D)
IDWA. . . . .	12	6	1.0	11.0	.7	1.3	6.0	26.2	12.4	39.1	.5	1.2	17.9
MISSOURI. . . . .	20	8	.6	6.7	.4	.8	3.5	12.1	6.7	18.0	.2	1.0	15.0
KANSAS. . . . . E2	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.1
SOUTH REGION. . . . .	135	51	5.6	50.2	3.8	7.5	29.8	107.8	78.0	180.1	6.4	5.7	75.8
SOUTH ATLANTIC DIVISION. . . . .	75	33	4.0	36.1	2.7	5.5	22.0	78.9	56.3	128.8	5.4	4.2	55.4
MARYLAND. . . . .	15	7	1.0	9.8	.7	1.5	6.9	19.3	19.9	38.0	.3	1.3	16.6
VIRGINIA. . . . .	8	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA. . . . . E1	6	4	.4	3.1	.2	.4	1.3	5.2	3.0	8.1	.1	.8	(D)
GEORGIA. . . . . E1	24	9	1.1	10.0	.8	1.6	5.9	20.8	13.0	33.2	1.4	1.0	13.8
FLDRIOA. . . . . E1	21	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	11.2
EAST SOUTH CENTRAL DIVISION. . . . .	21	4	.5	5.2	.3	.6	2.2	11.6	8.1	19.9	.4	.6	9.8
KENTUCKY. . . . .	8	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	8.3
TENNESSEE. . . . .	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	39	14	1.1	8.9	.8	1.5	5.5	17.3	13.7	31.4	.5	.9	10.6
LDUISIANA. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E1	29	8	.7	5.4	.5	.9	3.0	10.4	9.3	20.3	.4	.6	7.3
WEST REGION. . . . .	147	62	5.2	52.3	3.5	6.2	31.1	88.9	59.6	144.2	2.9	4.9	66.5
MOUNTAIN DIVISION. . . . . E1	14	5	.5	3.9	.4	.6	2.3	6.6	5.4	10.8	.5	.4	5.0
WYDMING. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLDRADO. . . . . E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PACIFIC DIVISION. . . . .	133	57	4.7	48.5	3.1	5.6	28.8	82.3	54.1	133.4	2.3	4.4	61.5
WASHINGTON. . . . .	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.2
DREGON. . . . . E1	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	106	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	53.0
HAWAII. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3552-- TEXTILE MACHINERY													
UNITED STATES. . . . .	578	224	32.7	270.6	23.3	47.4	168.3	487.6	339.6	822.8	27.6	39.7	404.1
NORTHEAST REGION. . . . .	257	90	17.0	147.0	11.5	22.9	87.7	238.8	162.9	403.3	12.7	22.0	217.1
NEW ENGLAND DIVISION. . . . .	105	42	8.6	74.4	5.5	11.9	42.3	132.9	82.5	213.9	5.7	12.8	129.1
NEW HAMPSHIRE. . . . .	5	4	1.3	9.3	1.0	2.4	6.8	21.7	5.0	27.7	.7	1.3	9.9
MASSACHUSETTS. . . . .	65	27	4.8	42.3	3.1	6.6	24.5	68.1	56.0	121.4	2.8	8.0	69.3
RHODE ISLAND. . . . .	21	9	2.3	21.2	1.3	2.6	9.9	39.8	19.8	59.8	2.1	2.8	43.9
MIDDLE ATLANTIC DIVISION. . . . . E1	152	48	8.4	72.6	6.0	11.1	45.3	105.9	80.4	189.4	7.0	9.2	88.0
NEW YDRK. . . . . E1	53	17	2.0	17.1	1.4	2.5	9.5	31.1	26.8	58.8	1.4	1.1	16.8
NEW JERSEY. . . . . E2	60	13	.9	7.9	.7	1.4	5.0	16.8	9.7	26.7	.5	1.2	13.7
PENNSYLVANIA. . . . .	39	18	5.5	47.6	3.9	7.2	30.9	58.0	43.9	103.8	5.1	6.9	57.4
NORTH CENTRAL REGION. . . . .	38	13	1.2	10.5	.8	1.5	6.6	16.3	10.0	25.7	1.0	1.5	18.2
EAST NORTH CENTRAL DIVISION. . . . .	29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	17.4
OHID. . . . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
ILLINDIS. . . . .	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION. . . . .	263	120	14.4	112.2	10.9	22.7	73.4	230.7	165.9	391.4	13.6	16.1	168.3
SOUTH ATLANTIC DIVISION. . . . .	240	109	13.3	103.0	10.0	20.9	67.0	215.6	152.2	362.5	13.3	15.2	156.7
NDRTH CAROLINA. . . . .	122	56	6.4	50.1	4.4	9.4	29.4	108.8	81.6	187.7	3.6	7.4	87.6
SOUTH CAROLINA. . . . .	67	36	5.4	41.0	4.4	9.1	29.8	89.2	55.2	141.8	8.5	FF	(D)
GEORGIA. . . . . E1	44	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.6
EAST SOUTH CENTRAL DIVISION. . . . .	16	10	1.0	8.7	.8	1.7	6.1	14.4	13.4	27.8	.4	CC	(D)
TENNESSEE. . . . .	10	7	.9	7.9	.7	1.5	5.5	12.8	12.6	25.4	.3	.7	9.8
3553-- WODOWORKING MACHINERY													
UNITED STATES. . . . .	241	108	13.5	122.0	9.3	19.0	72.9	280.3	217.0	488.0	12.3	12.7	192.8
NDRTH EAST REGION. . . . . E1	41	11	1.0	9.7	.7	1.3	5.4	19.6	13.5	33.1	.4	1.2	19.3
NEW ENGLAND DIVISION. . . . . E2	16	3	.2	1.7	.1	.3	1.1	3.7	3.8	7.6	.1	.2	2.2
MIDDLE ATLANTIC DIVISION. . . . .	25	8	.8	8.0	.5	1.1	4.3	15.9	9.7	25.5	.3	1.0	17.1
NEW YDRK. . . . . E1	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEW JERSEY. . . . .	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
PENNSYLVANIA. . . . .	11	4	.5	4.0	.4	.7	2.8	7.4	7.3	14.5	.2	.6	8.7

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3553-- WOODWORKING MACHINERY--CONTINUED													
NORTH CENTRAL REGION . . . . .	65	28	2.7	25.4	1.9	3.8	16.5	49.9	34.4	84.2	1.3	3.2	42.6
EAST NORTH CENTRAL DIVISION. . .	57	24	2.5	23.1	1.7	3.4	15.0	45.3	32.3	77.7	(D)	2.8	36.8
OHIO . . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.4
INDIANA . . . . .	10	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.2
ILLINOIS . . . . .	15	6	.9	8.8	.7	1.3	6.3	18.8	15.2	33.0	.3	1.1	13.6
MICHIGAN . . . . . E1	13	3	.2	2.3	.2	.4	1.5	4.6	2.9	7.4	.2	.4	5.2
WISCONSIN . . . . .	14	7	.7	7.2	.5	1.1	4.5	11.2	7.8	19.1	.3	.6	8.4
WEST NORTH CENTRAL DIVISION. . .	8	4	.3	2.3	.2	.4	1.5	4.7	2.1	6.6	(D)	.4	5.8
MINNESOTA . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.5
SOUTH REGION . . . . .	57	28	5.1	38.5	3.5	7.0	22.1	118.8	86.1	201.4	6.8	4.3	76.6
SOUTH ATLANTIC DIVISION. . . . .	25	12	2.5	18.4	1.5	3.0	8.8	62.1	31.2	91.5	(D)	EE	(D)
NORTH CAROLINA . . . . .	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA . . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	15	8	1.6	12.6	1.2	2.6	8.6	38.7	43.3	80.4	1.8	2.1	25.7
TENNESSEE . . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.5
ALABAMA . . . . . E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MISSISSIPPI . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . .	17	8	.9	7.5	.7	1.5	4.7	18.0	11.7	29.5	1.1	88	(D)
LOUISIANA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS . . . . .	9	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	78	41	4.7	48.4	3.2	6.8	28.9	91.9	83.0	169.3	3.8	3.9	54.3
MOUNTAIN DIVISION. . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	73	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON . . . . .	14	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	8.1
OREGON . . . . .	33	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	23.8
CALIFORNIA . . . . .	26	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3554-- PAPER INDUSTRIES MACHINERY													
UNITED STATES . . . . .	218	109	15.3	159.0	9.0	18.7	80.8	254.0	193.7	447.8	8.3	21.3	283.4
NORTHEAST REGION . . . . .	110	60	7.4	76.4	4.4	9.0	40.2	119.9	88.5	208.2	3.7	11.1	151.3
NEW ENGLAND DIVISION . . . . .	46	28	2.7	27.0	1.6	3.1	13.5	43.3	30.5	73.3	1.6	4.4	61.2
MAINE . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS . . . . .	32	19	1.9	19.7	1.1	2.2	10.2	31.0	24.2	54.5	1.0	2.8	37.5
MIDDLE ATLANTIC DIVISION . . . .	64	32	4.7	49.4	2.9	5.9	26.7	76.6	58.1	134.9	2.1	6.7	90.2
NEW YORK . . . . .	27	12	1.5	14.9	.9	1.8	7.9	23.6	20.3	47.8	.4	2.7	42.1
NEW JERSEY . . . . .	17	9	1.4	15.7	.9	1.8	9.2	26.3	17.7	42.6	.9	2.2	30.3
PENNSYLVANIA . . . . .	20	11	1.8	18.8	1.1	2.4	9.5	26.7	20.1	44.5	.8	1.8	17.8
NORTH CENTRAL REGION . . . . .	57	28	5.4	58.2	3.0	6.4	24.8	93.4	74.7	169.7	2.2	7.8	97.1
EAST NORTH CENTRAL DIVISION. . .	51	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7	95.5
OHIO . . . . .	19	9	1.3	12.6	.8	1.6	6.6	19.8	17.7	39.8	(D)	1.5	16.7
WISCONSIN . . . . .	21	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION . . . . . E1	27	12	1.5	14.1	1.0	2.0	9.1	24.5	19.4	42.5	2.0	1.5	21.1
SOUTH ATLANTIC DIVISION. . . . . E1	15	8	1.2	12.2	.8	1.7	7.8	19.8	14.8	33.3	1.2	1.2	17.3
MARYLAND . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	13.3
VIRGINIA . . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . .	7	3	.2	1.5	.1	.2	.9	3.8	3.5	7.2	.8	.2	2.4
ALABAMA . . . . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST REGION . . . . .	24	9	.9	10.3	.6	1.2	6.8	16.1	11.2	27.5	.4	1.0	13.8
PACIFIC DIVISION . . . . .	23	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.8
WASHINGTON . . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	7.6
CALIFORNIA . . . . . E1	13	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	5.1
3555-- PRINTING TRADES MACHINERY													
UNITED STATES . . . . .	574	173	23.9	249.4	15.3	30.3	137.3	503.6	317.2	823.5	16.1	29.2	458.7
NORTHEAST REGION . . . . .	234	72	10.7	110.6	6.7	13.3	58.4	225.1	134.0	366.1	12.4	15.0	252.8
NEW ENGLAND DIVISION . . . . .	52	21	4.1	42.5	2.7	5.3	20.9	86.0	50.6	136.6	4.5	3.4	48.3
NEW HAMPSHIRE . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS . . . . .	30	12	2.3	23.6	1.5	2.8	9.5	49.7	30.9	82.1	3.0	1.6	19.4
CONNECTICUT . . . . .	16	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . .	182	51	6.5	68.1	4.0	7.9	37.5	139.0	83.4	229.4	7.9	11.6	204.5
NEW YORK . . . . . E1	99	19	2.1	21.3	1.4	2.9	13.7	40.8	19.7	62.0	5.6	6.5	112.0
NEW JERSEY . . . . .	56	21	3.0	31.3	1.6	3.1	15.6	67.0	37.2	107.1	1.9	2.8	57.3
PENNSYLVANIA . . . . .	27	11	1.5	15.5	.9	1.9	8.2	31.2	26.5	60.3	.4	2.3	35.2
NORTH CENTRAL REGION . . . . .	191	67	10.1	108.4	6.7	13.3	62.6	208.1	147.0	353.2	4.9	11.9	171.2
EAST NORTH CENTRAL DIVISION. . .	151	52	8.5	92.8	5.7	11.2	53.8	172.8	128.8	300.5	4.1	10.2	148.0
OHIO . . . . .	39	12	2.3	22.8	1.7	3.0	13.5	44.6	35.3	84.6	(D)	FF	(D)
ILLINOIS . . . . .	81	28	5.3	61.6	3.4	7.0	35.2	110.5	84.5	189.8	2.9	6.1	76.9
MICHIGAN . . . . .	15	7	.6	5.9	.4	.9	3.6	12.0	6.5	18.0	.3	CC	(D)
WISCONSIN . . . . .	9	3	.3	1.8	.1	.3	1.1	4.0	1.8	5.7	.1	.2	3.2

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture	
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3555-- PRINTING TRACES MACHINERY-- CONTINUED														
NORTH CENTRAL REGION--CONTINUED														
WEST NORTH CENTRAL DIVISION. . .	40	15	1.5	15.5	1.0	2.1	9.0	35.2	18.2	52.7	0.8	1.7	23.3	
MINNESOTA. . . . . E1	7	3	.2	1.8	.1	.2	.9	2.8	1.9	4.5	(D)	AA	(D)	
IOWA. . . . .	6	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)	
MISSOURI. . . . . E1	16	7	.4	4.3	.3	.6	2.5	9.4	4.8	14.5	.2	.7	6.5	
KANSAS. . . . .	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)	
SOUTH REGION. . . . .	77	17	1.7	16.5	1.0	2.1	8.4	44.8	20.0	63.3	2.4	1.4	23.0	
SOUTH ATLANTIC DIVISION. . . .	41	9	.8	7.3	.5	.9	3.1	20.8	8.5	28.3	1.8	.6	8.7	
VIRGINIA. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)	
FLORIDA. . . . .	12	3	.4	3.4	.2	.3	1.0	8.5	2.7	11.1	(D)	(NA)	(NA)	
EAST SOUTH CENTRAL DIVISION. . E3	13	3	.2	1.4	.1	.2	1.0	2.3	1.2	3.4	.1	(NA)	(NA)	
WEST SOUTH CENTRAL DIVISION. . .	23	5	.7	7.8	.4	1.0	4.3	21.8	10.3	31.6	.5	.8	12.7	
TEXAS. . . . .	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.8	
WEST REGION. . . . . E1	72	17	1.5	13.9	.9	1.7	7.7	25.7	16.2	40.9	.5	.8	11.6	
PACIFIC DIVISION. . . . . E1	65	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
WASHINGTON. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
CALIFORNIA. . . . . E1	60	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3559-- SPECIAL INDUSTRY MACHINERY, NEC														
UNITED STATES. . . . .	1 382	523	72.2	730.4	44.9	91.1	392.1	1 567.1	1 090.1	2 603.9	73.8	71.3	1 038.4	
NORTHEAST REGION. . . . .	457	162	26.9	279.1	15.6	31.8	140.8	499.8	380.1	874.0	23.7	31.4	441.5	
NEW ENGLAND DIVISION. . . . .	140	57	12.8	129.4	7.7	15.5	69.1	237.2	150.8	379.4	14.9	12.0	159.6	
MAINE. . . . . E1	10	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)	
NEW HAMPSHIRE. . . . .	h	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
MASSACHUSETTS. . . . .	72	31	6.7	66.5	3.8	7.6	35.1	124.3	71.4	192.9	4.9	7.8	100.8	
RHODE ISLAND. . . . .	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.5	
CONNECTICUT. . . . .	36	15	3.5	38.1	2.2	4.5	20.6	69.9	51.6	118.7	8.8	3.1	49.0	
MIDDLE ATLANTIC DIVISION. . . .	317	105	14.1	149.7	8.0	16.3	71.7	262.6	229.3	494.5	8.9	19.5	282.0	
NEW YORK. . . . .	99	23	3.6	40.3	2.0	4.0	17.7	58.0	53.3	115.8	3.6	5.3	79.9	
NEW JERSEY. . . . .	128	45	5.5	57.4	3.4	7.2	31.4	93.7	67.9	163.0	2.3	6.2	89.8	
PENNSYLVANIA. . . . .	90	37	5.0	52.0	2.6	5.1	22.5	110.9	108.1	215.7	3.0	7.9	112.3	
NORTH CENTRAL REGION. . . . .	494	213	27.9	290.4	17.9	37.3	164.7	571.9	424.1	976.7	26.8	23.8	375.5	
EAST NORTH CENTRAL DIVISION. . .	422	185	25.5	269.1	16.3	33.9	152.0	530.7	390.5	904.4	24.3	22.3	350.0	
OHIO. . . . .	153	72	11.6	119.8	7.5	15.5	68.3	237.3	178.5	407.7	12.9	9.0	121.7	
INDIANA. . . . .	40	16	4.1	42.9	2.6	5.9	26.2	76.5	51.3	126.7	1.3	4.0	66.8	
ILLINOIS. . . . .	108	39	4.0	43.0	2.7	5.6	24.9	88.1	55.5	141.4	3.9	3.7	66.6	
MICHIGAN. . . . .	83	39	3.7	40.6	2.4	4.6	21.9	75.9	59.0	129.9	3.9	4.3	75.7	
WISCONSIN. . . . .	38	19	2.1	22.7	1.1	2.3	10.7	52.9	46.3	98.6	2.3	1.2	19.2	
WEST NORTH CENTRAL DIVISION. . .	72	28	2.4	21.3	1.6	3.5	12.6	41.3	33.6	72.3	2.5	1.5	25.5	
MINNESOTA. . . . .	20	12	.9	8.5	.5	1.2	4.6	16.0	10.0	25.3	.9	.5	10.6	
IOWA. . . . .	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
KANSAS. . . . .	6	3	.5	4.4	.4	.8	3.0	8.3	8.8	15.8	(D)	AA	(D)	
SOUTH REGION. . . . .	224	88	12.5	113.6	8.2	15.8	61.1	413.8	213.6	581.9	19.3	9.5	110.3	
SOUTH ATLANTIC DIVISION. . . .	95	39	7.0	69.6	4.3	8.9	34.2	325.4	139.4	422.4	15.6	4.6	52.3	
DELAWARE. . . . .	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
MARYLAND. . . . .	11	7	1.4	14.7	.8	1.7	7.2	26.0	12.9	38.2	.5	1.5	17.4	
VIRGINIA. . . . .	12	6	.6	4.6	.4	.8	3.2	10.5	7.1	17.3	.4	.8	8.0	
NORTH CAROLINA. . . . .	17	d	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	8.0	
SOUTH CAROLINA. . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
GEORGIA. . . . . E1	14	3	.7	5.0	.5	.9	2.3	9.3	7.9	17.1	.6	.6	6.4	
FLORIDA. . . . .	25	7	.8	6.7	.5	1.0	3.5	9.4	11.2	21.2	.4	.6	5.5	
EAST SOUTH CENTRAL DIVISION. . .	41	17	2.1	16.3	1.6	2.7	10.5	29.0	30.7	58.5	.9	1.9	22.1	
KENTUCKY. . . . .	17	9	.7	6.4	.5	.8	3.9	7.6	9.8	17.3	.3	.7	10.0	
TENNESSEE. . . . . E1	15	4	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
ALABAMA. . . . .	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.8	
WEST SOUTH CENTRAL DIVISION. . .	88	32	3.4	27.7	2.3	4.2	16.5	59.5	43.5	101.0	2.9	3.0	35.9	
LOUISIANA. . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
OKLAHOMA. . . . .	26	12	1.2	10.1	.8	1.6	5.9	24.0	15.0	38.5	.9	.9	CC	(D)
TEXAS. . . . .	52	16	1.9	16.2	1.2	2.3	9.6	30.7	25.0	54.6	1.6	2.3	24.3	
WEST REGION. . . . . E1	207	60	5.0	47.3	3.2	6.2	25.6	101.5	72.3	171.4	4.0	6.6	111.1	
MOUNTAIN DIVISION. . . . . E2	21	4	.2	1.5	.2	.3	1.2	2.7	2.2	5.1	.2	.3	4.0	
PACIFIC DIVISION. . . . . E1	186	56	4.8	45.7	3.0	5.9	24.4	98.7	70.2	166.3	3.8	6.3	107.7	
WASHINGTON. . . . . E1	23	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.3	
OREGON. . . . . E1	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
CALIFORNIA. . . . . E1	150	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	96.7	

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available.      (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over



TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Food products machinery (SIC 3551)	Textile machinery (SIC 3552)	Wood-working machinery (SIC 3553)	Paper industries machinery (SIC 3554)	Printing trades machinery (SIC 3555)	Special industry machinery, n.e.c. (SIC 3559)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	90	94	90	85	97	82
COVERAGE RATIO <sup>2</sup> . . . . .	89	96	91	86	91	81
ESTABLISHMENTS, TOTAL . . . . .	688	578	241	218	574	1 382
WITH 1 TO 19 EMPLOYEES . . . . .	398	354	133	109	401	859
WITH 20 TO 99 EMPLOYEES . . . . .	205	162	74	74	124	377
WITH 100 EMPLOYEES OR MORE . . . . .	85	62	34	35	49	146
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000 .	31.9	32.7	13.5	15.3	23.9	72.2
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . MILLION DOLLARS .	315.9	270.6	122.0	159.0	249.4	730.4
PRODUCTION WORKERS:						
AVERAGE FOR YEAR . . . . . 1,000 .	20.6	23.3	9.3	9.0	15.3	44.9
MARCH . . . . .	19.9	23.4	8.8	9.0	15.3	43.4
MAY . . . . .	20.2	23.1	9.0	9.1	15.3	44.6
AUGUST . . . . .	21.1	23.3	9.5	8.9	15.5	45.2
NOVEMBER . . . . .	21.2	23.3	9.8	9.1	15.2	46.5
MAN-HOURS . . . . . MILLIONS .	40.7	47.4	19.0	18.7	30.3	91.1
JANUARY-MARCH . . . . .	9.7	12.2	4.5	4.6	7.6	21.9
APRIL-JUNE . . . . .	10.3	12.2	4.7	4.7	7.7	22.7
JULY-SEPTEMBER . . . . .	10.2	11.0	4.8	4.5	7.1	22.6
OCTOBER-DECEMBER . . . . .	10.6	11.9	5.0	4.8	8.0	23.9
WAGES . . . . . MILLION DOLLARS .	179.7	168.3	72.9	80.8	137.3	392.1
COST OF MATERIALS, ETC., TOTAL . . . . .	411.7	339.6	217.0	193.7	317.2	1 090.1
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .	319.6	289.2	185.7	162.9	218.7	903.3
COST OF REALES . . . . .	70.6	36.0	21.4	17.6	82.5	91.0
FUELS CONSUMED . . . . .	2.6	3.3	1.2	1.7	1.6	6.3
PURCHASED ELECTRIC ENERGY . . . . .	4.5	5.4	2.1	2.7	3.9	13.0
CONTRACT WORK . . . . .	14.5	5.7	6.5	8.8	10.5	76.4
VALUE OF SHIPMENTS, INCLUDING REALES . . . . .	1 000.1	822.8	488.0	447.8	823.5	2 603.9
VALUE OF REALES . . . . .	91.7	44.9	28.8	32.9	107.4	125.0
VALUE ADDED BY MANUFACTURE . . . . .	605.2	487.6	280.3	254.0	503.6	1 587.1
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL . . . . .	229.2	224.6	83.9	116.2	239.3	607.7
FINISHED PRODUCTS . . . . .	83.1	90.2	24.1	25.6	86.8	163.8
WORK IN PROCESS . . . . .	88.5	85.6	37.1	55.4	108.6	263.3
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	57.6	48.8	22.7	35.2	43.9	180.6
END OF YEAR, TOTAL . . . . .	253.1	230.9	100.4	115.2	243.6	639.2
FINISHED PRODUCTS . . . . .	86.3	87.8	29.2	25.8	82.0	162.6
WORK IN PROCESS . . . . .	102.2	92.4	41.3	55.0	110.6	337.8
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	64.6	50.7	29.9	34.2	50.9	138.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .	23.9	31.7	13.4	9.0	17.8	78.8
NEW PLANT AND EQUIPMENT, TOTAL . . . . .	21.8	27.6	12.3	8.3	16.1	73.8
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .	6.1	6.6	3.7	1.7	3.6	21.4
NEW MACHINERY AND EQUIPMENT . . . . .	15.7	21.0	8.6	6.6	12.5	52.4
USED PLANT AND EQUIPMENT . . . . .	2.1	4.0	1.1	.7	1.7	5.0

<sup>1</sup>The proportion of primary shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3551-- FOOD PRODUCTS MACHINERY											
ESTABLISHMENTS, TOTAL . . . . .	688	31.9	315.9	20.6	40.7	179.7	605.2	411.7	1 000.1	21.8	253.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	193	.4	3.3	.3	.5	1.9	7.8	5.5	13.3	.3	3.2
5 TO 9 EMPLOYEES . . . . . E5	86	.6	5.0	.4	.8	3.1	11.0	6.7	17.5	.4	3.6
10 TO 19 EMPLOYEES . . . . . E2	119	1.7	15.5	1.2	2.4	9.4	30.5	20.8	50.6	1.2	9.2
20 TO 49 EMPLOYEES . . . . . E1	133	4.2	37.4	3.0	5.7	23.0	68.9	49.8	118.5	2.7	22.0
50 TO 99 EMPLOYEES . . . . .	72	4.8	46.4	3.2	6.0	26.1	85.6	65.2	148.4	3.1	31.9
100 TO 249 EMPLOYEES . . . . .	62	9.6	94.0	6.2	12.4	53.3	187.4	132.0	311.8	9.4	78.9
250 TO 499 EMPLOYEES . . . . .	15	4.9	54.3	3.0	5.9	29.0	98.8	55.8	152.5	1.9	42.1
500 TO 999 EMPLOYEES . . . . .	8	5.8	60.1	3.4	7.1	33.9	115.3	76.0	187.6	2.8	62.2
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	182	.4	4.0	.3	.6	2.3	9.3	6.2	15.5	.3	3.8
3552-- TEXTILE MACHINERY											
ESTABLISHMENTS, TOTAL . . . . .	578	32.7	270.6	23.3	47.4	168.3	487.6	339.6	822.8	27.6	230.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	159	.3	2.3	.3	.4	1.5	5.1	3.2	8.3	.4	2.0
5 TO 9 EMPLOYEES . . . . . E7	98	.7	5.2	.5	1.0	3.2	10.7	7.2	17.8	.7	4.2
10 TO 19 EMPLOYEES . . . . . E2	97	1.4	11.0	1.0	2.0	6.9	18.8	14.1	32.8	1.1	5.3
20 TO 49 EMPLOYEES . . . . . E1	108	3.3	27.2	2.4	4.8	16.3	51.6	38.0	88.3	1.9	15.1
50 TO 99 EMPLOYEES . . . . .	54	3.8	31.9	2.8	6.0	20.1	60.8	47.0	106.6	3.9	17.3
100 TO 249 EMPLOYEES . . . . .	35	5.5	44.1	3.9	8.2	27.5	79.8	57.3	137.1	3.1	32.5
250 TO 499 EMPLOYEES . . . . .	16	5.7	45.5	3.9	8.0	27.8	92.5	69.7	160.0	3.9	48.4
500 TO 999 EMPLOYEES . . . . .	7	5.1	42.4	3.6	7.6	26.6	81.8	48.6	132.5	6.8	41.9
1,000 TO 2,499 EMPLOYEES . . . . .	3	7.0	61.1	4.9	9.3	28.3	86.3	54.4	129.5	6.0	64.2
2,500 EMPLOYEES OR MORE . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	185	.7	5.2	.5	1.0	3.3	10.9	7.3	18.2	.5	5.0

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3553-- WOODWORKING MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	241	13.5	122.0	9.3	19.0	72.9	280.3	217.0	488.0	12.3	100.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	60	.1	.9	.1	.2	.5	2.5	1.7	4.2	.1	.9
5 TO 9 EMPLOYEES . . . . . E6	39	.3	2.2	.2	.4	1.3	5.0	3.2	8.1	.3	1.7
10 TO 19 EMPLOYEES . . . . . E1	34	.5	4.5	.4	.7	2.9	9.6	7.4	16.6	.2	2.7
20 TO 49 EMPLOYEES . . . . .	52	1.6	14.6	1.2	2.3	9.3	29.3	21.4	50.0	1.4	8.5
50 TO 99 EMPLOYEES . . . . .	22	1.5	13.0	1.0	2.0	7.4	25.8	17.7	43.1	1.1	8.3
100 TO 249 EMPLOYEES . . . . .	23	3.3	33.6	2.2	4.5	18.9	62.6	44.7	107.1	1.2	25.7
250 TO 499 EMPLOYEES . . . . .	5	1.8	16.7	1.4	2.8	11.9	34.5	30.1	64.1	2.3	12.6
500 TO 999 EMPLOYEES . . . . .	5	4.4	26.6	2.9	6.0	20.6	111.0	90.9	194.7	5.7	40.0
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	77	.3	2.1	.2	.4	1.2	5.8	3.8	9.6	.2	2.0
3554-- PAPER INDUSTRIES MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	218	15.3	159.0	9.0	18.7	80.8	254.0	193.7	447.8	8.3	115.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	44	.1	.7	.1	.1	.4	1.8	1.6	3.3	.4	.8
5 TO 9 EMPLOYEES . . . . . E5	32	.2	2.1	.1	.3	1.3	5.2	4.1	9.3	.2	2.2
10 TO 19 EMPLOYEES . . . . . E1	33	.5	4.3	.3	.7	2.4	8.7	6.1	14.5	.3	2.3
20 TO 49 EMPLOYEES . . . . .	47	1.6	15.1	1.1	2.2	9.2	23.0	13.8	39.5	.7	7.5
50 TO 99 EMPLOYEES . . . . .	27	1.9	19.9	1.2	2.7	11.7	34.8	23.6	57.9	1.7	10.7
100 TO 249 EMPLOYEES . . . . .	20	3.2	32.6	2.1	4.1	18.8	56.3	44.7	102.4	1.3	32.5
250 TO 499 EMPLOYEES . . . . .	11	3.7	38.3	2.2	4.3	20.2	57.4	46.1	102.1	1.5	33.4
500 TO 999 EMPLOYEES . . . . .	3	4.1	46.0	1.9	4.2	16.7	66.8	52.8	118.8	2.2	29.2
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	41	.1	1.0	.1	.1	.5	3.1	2.6	5.7	.1	1.4
3555-- PRINTING TRADES MACHINERY											
ESTABLISHMENTS, TOTAL. . . . .	574	23.9	249.4	15.3	30.3	137.3	503.6	317.2	823.5	16.1	243.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	204	.3	3.2	.3	.5	2.0	7.0	4.7	12.2	.2	3.7
5 TO 9 EMPLOYEES . . . . . E5	101	.7	6.3	.4	.9	3.9	12.7	7.6	20.3	.3	4.6
10 TO 19 EMPLOYEES . . . . . E1	96	1.4	14.1	1.0	1.9	8.5	26.1	16.1	41.8	.8	7.0
20 TO 49 EMPLOYEES . . . . .	84	2.6	25.1	1.8	3.6	15.0	46.3	27.0	72.4	1.5	11.4
50 TO 99 EMPLOYEES . . . . .	40	2.7	26.8	1.7	3.5	14.9	53.5	31.7	89.0	6.6	16.3
100 TO 249 EMPLOYEES . . . . .	27	4.2	42.6	2.7	5.7	24.6	94.9	53.1	151.8	1.8	45.9
250 TO 499 EMPLOYEES . . . . .	13	4.5	49.7	2.6	5.3	24.2	98.8	67.3	173.5	3.0	67.1
500 TO 999 EMPLOYEES . . . . .	6	7.6	81.6	4.8	9.0	44.2	164.2	109.6	262.6	5.9	87.7
1,000 TO 2,499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	206	.5	4.9	.4	.7	2.9	10.7	7.0	17.8	.3	5.9
3559-- SPECIAL INDUSTRY MACHINERY, NEC											
ESTABLISHMENTS, TOTAL. . . . .	1 382	72.2	730.4	44.9	91.1	392.1	1 587.1	1 090.1	2 603.9	73.8	639.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	423	.8	7.3	.6	1.0	4.1	16.4	13.0	29.4	1.3	6.5
5 TO 9 EMPLOYEES . . . . . E5	198	1.3	12.3	.8	1.7	6.9	25.2	20.5	45.5	1.1	9.1
10 TO 19 EMPLOYEES . . . . . E2	236	3.3	30.3	2.3	4.5	18.3	58.3	44.2	101.8	2.7	16.7
20 TO 49 EMPLOYEES . . . . .	248	7.9	75.7	5.4	10.7	44.4	149.4	114.2	261.6	8.1	47.8
50 TO 99 EMPLOYEES . . . . .	129	9.0	85.2	6.1	12.4	51.0	147.8	126.0	278.2	8.4	56.4
100 TO 249 EMPLOYEES . . . . .	80	11.9	119.3	7.5	15.4	63.5	220.7	165.5	380.1	10.0	90.8
250 TO 499 EMPLOYEES . . . . .	38	13.4	135.3	6.2	16.1	70.0	298.8	203.4	486.5	18.9	128.5
500 TO 999 EMPLOYEES . . . . .	21	15.2	161.0	9.0	18.4	85.0	277.5	252.3	521.9	9.6	130.8
1,000 TO 2,499 EMPLOYEES . . . . .	7	9.3	103.8	5.0	10.8	48.9	393.0	151.1	498.8	13.7	152.8
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	363	1.1	10.0	.7	1.4	5.4	21.7	17.5	39.2	1.3	9.1

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underacred figures above.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3551	FOOD PRODUCTS MACHINERY										
	ENTIRE INDUSTRY . . . . .	688	31.9	315.9	20.6	40.7	179.7	605.2	411.7	1 000.1	21.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	636	25.5	249.2	16.4	32.1	141.0	488.3	336.5	810.4	18.3
35511	DAIRY, MILK PRODUCTS PLANT MACHINERY, EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	27	2.7	26.5	1.9	4.0	16.5	51.2	38.2	88.8	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	19	.7	6.5	.5	1.1	3.9	15.1	15.0	30.3	.5
35512	COMMERCIAL FOOD PRODUCTS MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	104	7.1	71.0	4.5	8.7	40.8	148.1	105.7	249.6	5.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	74	4.4	41.9	2.7	5.2	23.7	90.5	70.3	159.6	3.0
35513	OTHER INDUS. FOOD PROD. MACHINERY, PARTS, ACCES. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	156	10.5	102.6	6.8	13.2	57.9	186.6	133.2	314.2	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	121	7.6	72.0	4.9	9.3	41.0	135.0	99.3	228.7	4.5
35514	PACKING, PACKAGING, BOTTLING MACHINERY FOR FOOD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	88	8.1	83.8	5.0	10.1	44.8	153.5	92.3	242.8	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	61	6.1	61.9	3.8	7.6	33.6	120.9	70.4	188.2	2.0
3552	TEXTILE MACHINERY										
	ENTIRE INDUSTRY . . . . .	578	32.7	270.6	23.3	47.4	168.3	487.6	339.6	822.8	27.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	545	25.9	213.7	18.5	38.4	131.1	413.2	291.2	697.9	22.4
35521	TEXTILE MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	124	17.8	152.8	12.2	24.5	91.3	281.5	197.7	478.7	14.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	84	7.2	61.0	5.2	11.2	37.5	136.9	111.3	245.3	6.6
35522	PARTS AND ATTACHMENTS FOR TEXTILE MACHINERY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	156	12.3	97.5	9.1	19.0	63.7	163.9	117.3	278.2	10.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	121	7.5	56.8	5.9	12.1	38.6	103.0	64.6	165.6	9.9
3553	WOODWORKING MACHINERY										
	ENTIRE INDUSTRY . . . . .	241	13.5	122.0	9.3	19.0	72.9	280.3	217.0	488.0	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	222	10.3	92.9	7.1	14.6	54.3	218.7	176.5	389.2	11.0
35531	WOODWORKING MACH., EXC. HOME, INCL. PARTS, ATTACH (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	131	11.6	107.8	7.8	16.0	63.0	237.9	176.0	406.3	10.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	109	8.0	75.2	5.3	11.1	42.1	170.8	130.8	297.4	8.7
35532	HOME SHOP WOODWORKING MACH., EXC. POWER HANDTOOLS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3554	PAPER INDUSTRIES MACHINERY										
	ENTIRE INDUSTRY . . . . .	218	15.3	159.0	9.0	18.7	80.8	254.0	193.7	447.8	8.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	190	10.9	113.6	6.4	13.3	56.6	188.1	139.3	328.4	5.8
3555	PRINTING TRADES MACHINERY										
	ENTIRE INDUSTRY . . . . .	574	23.9	249.4	15.3	30.3	137.3	503.6	317.2	823.5	16.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	547	21.9	232.0	14.2	28.3	128.7	467.5	300.5	771.5	14.7
35551	PRINTING PRESSES, LITHOGRAPHIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	30	5.3	58.0	3.7	7.4	35.4	123.0	72.6	196.2	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	21	2.7	29.6	1.9	3.8	19.6	72.8	43.8	113.5	1.2
35552	PRINTING PRESSES, OTHER THAN LITHOGRAPHIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	36	4.5	49.5	2.7	5.4	26.9	83.5	65.7	148.9	3.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	24	1.9	18.2	1.2	2.3	10.2	29.6	15.9	46.4	2.2
35553	TYPESETTING MACHINERY AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	15	2.9	29.4	1.8	3.4	12.3	73.8	39.2	113.8	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	10	2.3	24.0	1.4	2.5	9.3	51.0	27.0	78.7	2.8
35554	BINDERY EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	16	1.3	14.2	.8	1.7	7.7	25.1	12.4	36.4	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	12	.9	9.0	.6	1.3	5.7	18.4	7.7	25.2	.3
35555	OTHER PRINTING TRADE MACHINERY, EQUIP., PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	164	8.1	81.6	4.9	10.0	44.6	165.4	107.5	276.2	9.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	131	4.5	45.1	2.9	6.1	25.5	88.0	52.7	142.7	2.3
3559	SPECIAL INDUSTRY MACHINERY, NEC										
	ENTIRE INDUSTRY . . . . .	1 382	72.2	730.4	44.9	91.1	392.1	1 587.1	1 090.1	2 603.9	73.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 246	49.4	495.6	31.1	62.7	269.5	941.6	701.9	1 619.5	51.1
35591	CHEMICAL MFG. INDUSTRIES MACHINERY, EQUIP., PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	73	8.9	91.8	4.9	10.0	43.5	136.6	104.7	243.6	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	47	4.8	51.9	2.5	5.2	21.9	69.8	56.2	130.9	2.8
35592	FOUNDRY MACHINERY AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	41	4.1	44.5	2.4	5.7	23.9	89.7	64.0	152.5	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	36	2.6	27.4	1.5	3.2	13.4	55.8	38.8	94.2	1.2
35593	PLASTICS-WORKING MACH., EQUIP., EXC. PATTERNS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	122	14.0	149.2	8.8	18.4	81.8	303.9	230.4	512.8	12.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	93	7.6	80.0	4.8	10.2	44.5	190.6	139.0	308.4	9.4
35594	RUBBER-WORKING MACH., EQUIP., EXC. TIRE MOLDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	40	4.1	42.0	2.9	6.2	27.5	59.6	61.4	128.3	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	28	2.6	26.1	1.9	4.0	17.4	44.7	43.5	85.9	1.5
35595	OTHER SPECIAL INDUSTRIAL MACHINERY AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	399	35.2	353.8	22.2	43.9	183.3	397.3	561.7	1 478.5	43.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	315	23.8	239.4	15.5	30.8	134.3	456.0	331.0	774.1	27.8

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3551	Food products machinery.....1972..	1,000.1	772.2	88.6	139.3	.90	867.2	772.2	95.0	.89
	.....1967..	830.2	594.9	83.7	151.6	.88	689.9	594.9	95.0	.86
3552	Textile machinery.....1972..	822.8	709.1	42.6	71.1	.94	738.1	709.1	29.0	.96
	.....1967..	711.7	617.1	40.5	54.1	.94	652.6	617.1	35.5	.95
3553	Woodworking machinery.....1972..	488.0	401.8	45.5	40.7	.90	441.6	401.8	39.8	.91
	.....1967..	314.4	238.0	49.9	26.5	.83	274.4	238.0	36.4	.87
3554	Paper industries machinery.....1972..	447.8	329.7	60.0	58.1	.85	381.4	329.7	51.7	.86
	.....1967..	551.4	444.4	37.0	70.0	.92	515.1	444.0	70.7	.86
3555	Printing trades machinery.....1972..	823.5	670.4	18.9	134.2	.97	736.6	670.4	66.2	.91
	.....1967..	752.3	619.2	15.8	117.3	.98	656.0	619.2	36.8	.94
3559	Special industry machinery, n.e.c.....1972..	2,603.9	1,923.6	421.4	258.9	.82	2,367.1	1,923.6	443.5	.81
	.....1967..	1,833.0	1,349.7	287.9	195.4	.82	1,670.3	1,349.7	320.5	.81

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Food products machinery (SIC 3551)	Textile machinery (SIC 3552)	Wood-working machinery (SIC 3553)	Paper industries machinery (SIC 3554)	Printing trades machinery (SIC 3555)	Special industry machinery, n.e.c. (SIC 3559)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,000.1	822.8	488.0	447.8	823.5	2,603.9	(X)
3551	Food products machinery.....	867.2	772.2	(under 2)	(under 2)	8.7	-	20.3	65.7
35511	Dairy and milk products plant machinery and equipment, except bottling and packaging machinery.....	57.4	53.1	-	-	-	-	-	4.3
35512	Commercial food products machinery, except wrapping machines.....	185.0	166.1	(under 2)	(under 2)	(over 2)	-	2.8	13.5
35513	Other industrial food products machinery (except packing and bottling machinery) and parts and attachments.....	296.2	254.4	-	(under 2)	(over 2)	-	10.2	26.4
35514	Packing, packaging, and bottling machinery for industrial food products.....	232.1	204.0	-	-	(under 2)	-	7.0	(over 2)
35510	Food products machinery, n.s.k.	96.5	94.7	-	(under 2)	-	-	.3	(under 2)
3552	Textile machinery.....	738.1	(under 2)	709.1	(under 2)	1.1	-	(over 2)	23.2
35521	Textile machinery.....	373.8	(under 2)	363.4	(under 2)	(under 2)	-	(over 2)	5.8
35522	Parts and attachments for textile machinery.....	305.7	(under 2)	287.3	-	(under 2)	-	(under 2)	17.2
35520	Textile machinery, n.s.k.....	58.6	(under 2)	58.4	-	-	-	-	(under 2)
3553	Woodworking machinery.....	441.6	(under 2)	-	401.8	(under 2)	(under 2)	2.3	35.5
35531	Woodworking machinery (except home workshop), including parts and attachments.....	372.5	(under 2)	-	335.5	(under 2)	(under 2)	2.3	32.7
35532	Woodworking machinery for home workshop (except power-driven handtools), including parts and attachments.....	51.5	-	-	49.2	-	-	-	2.3
35530	Woodworking machinery, n.s.k....	17.6	(under 2)	-	17.1	-	-	-	(under 2)
3554	Paper industries machinery.....	381.4	(under 2)	(under 2)	(under 2)	329.7	(under 2)	27.3	22.7
3555	Printing trades machinery.....	736.6	(under 2)	(over 2)	-	8.7	670.4	(under 2)	53.2
35551	Printing presses, lithographic.	156.0	-	(over 2)	-	(over 2)	145.5	-	2.6
35552	Printing presses, other than lithographic.....	90.2	(under 2)	-	-	(under 2)	83.1	-	5.3
35553	Typesetting machinery and equipment.....	104.1	-	-	-	-	98.8	-	5.3
35554	Bindery equipment.....	33.5	-	-	-	-	33.5	-	-
35555	Other printing trades machinery and equipment, parts, and attachments for all printing trades machinery and equipment	303.5	-	-	-	2.9	261.9	(under 2)	(20-50)
35550	Printing trades machinery, n.s.k.....	49.3	-	-	-	-	47.5	(under 2)	(under 2)
3559	Special industry machinery, n.e.c.....	2,367.1	31.2	5.6	4.4	13.3	(under 2)	1,923.6	(200-500)
35591	Chemical manufacturing industries machinery, equipment, and parts.....	212.5	19.0	1.0	-	.5	-	165.3	26.7
35592	Foundry machinery and equipment	132.3	(under 2)	(under 2)	-	(under 2)	-	114.8	16.2
35593	Plastics-working machinery and equipment, excluding patterns and molds.....	434.1	(under 2)	(under 2)	-	(5-10)	(under 2)	393.9	31.7
35594	Rubber-working machinery and equipment, excluding tire molds.....	137.3	8.4	(under 2)	-	(under 2)	(under 2)	117.3	10.6
35595	Other special industry machinery and equipment.....	1,281.4	3.4	3.4	4.4	4.0	(under 2)	971.1	(200-500)
35590	Special industry machinery, n.s.k.....	169.5	-	-	-	(under 2)	-	161.1	(5-10)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Food products machinery (SIC 3551)	Textile machinery (SIC 3552)	Wood-working machinery (SIC 3553)	Paper industries machinery (SIC 3554)	Printing trades machinery (SIC 3555)	Special industry machinery, n.e.c. (SIC 3559)	Other industries
	Shipments and miscellaneous receipts--Continued								
	Other product shipments by 4-digit product group:								
2514	Metal household furniture.....	(X)	-	-	-	-	-	(over 2)	(X)
2819	Industrial inorganic chemicals, n.e.c.....	(X)	-	-	-	-	-	(over 2)	(X)
3069	Fabricated rubber products, n.e.c.....	(X)	-	-	-	-	4.1	(under 2)	(X)
3079	Miscellaneous plastics products	(X)	(under 2)	-	-	-	-	2.3	(X)
3291	Abrasive products.....	(X)	-	-	-	-	-	(over 2)	(X)
3321	Gray iron foundries.....	(X)	(under 2)	8.2	(under 2)	(5-10)	-	3.1	(X)
3441	Fabricated structural metal....	(X)	(under 2)	(under 2)	-	-	-	(over 2)	(X)
3443	Fabricated platework (boiler shops).....	(X)	8.5	(under 2)	(under 2)	(5-10)	-	5.6	(X)
3494	Valves and pipe fittings.....	(X)	(under 2)	(under 2)	-	(under 2)	-	12.5	(X)
3496	Miscellaneous fabricated wire products.....	(X)	(under 2)	(over 2)	-	(over 2)	-	(under 2)	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	(under 2)	-	-	-	4.3	(X)
3519	Internal combustion engines, n.e.c.....	(X)	(under 2)	(under 2)	5.0	-	-	(under 2)	(X)
3523	Farm machinery and equipment...	(X)	(under 2)	-	(under 2)	-	-	9.2	(X)
3531	Construction machinery.....	(X)	-	-	(5-10)	-	-	3.3	(X)
3532	Mining machinery.....	(X)	(under 2)	-	(under 2)	-	-	7.8	(X)
3535	Conveyors, conveying equipment.	(X)	3.9	(under 2)	(under 2)	(under 2)	-	(5-10)	(X)
3541	Machine tools, metal-cutting types.....	(X)	(under 2)	(under 2)	3.6	(under 2)	.3	(10-20)	(X)
3542	Machine tools, metal-forming types.....	(X)	(under 2)	(under 2)	-	-	-	9.6	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	.3	(under 2)	(under 2)	(under 2)	(under 2)	12.0	(X)
3545	Machine tool accessories.....	(X)	(2-5)	-	(under 2)	-	(under 2)	(under 2)	(X)
3549	Metalworking machinery, n.e.c..	(X)	(under 2)	(under 2)	-	(under 2)	-	(5-10)	(X)
3561	Pumps and pumping equipment....	(X)	-	-	-	-	-	-	(X)
3563	Air and gas compressors.....	(X)	-	-	-	-	-	(over 2)	(X)
3564	Blowers and fans.....	(X)	-	-	(under 2)	-	-	(10-20)	(X)
3567	Industrial furnaces and ovens..	(X)	(under 2)	(under 2)	-	-	-	7.5	(X)
3568	Power transmission equipment, n.e.c.....	(X)	-	-	-	-	-	(2-5)	(X)
3569	General industrial machinery, n.e.c.....	(X)	4.7	(under 2)	-	(2-5)	(under 2)	28.5	(X)
3579	Office machines, n.e.c.....	(X)	-	-	-	-	-	-	(X)
3585	Refrigeration and heating equipment.....	(X)	6.3	-	-	-	-	(over 2)	(X)
3586	Measuring, dispensing machines.	(X)	-	-	-	-	-	(over 2)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	.9	1.4	2.2	1.3	(under 2)	5.2	(X)
3621	Motors and generators.....	(X)	(under 2)	-	(over 2)	-	(under 2)	-	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	-	-	-	-	-	(2-5)	(X)
3636	Sewing machines.....	(X)	(over 2)	-	-	-	-	-	(X)
3662	Radio and TV communication equipment.....	(X)	(under 2)	-	-	-	-	(2-5)	(X)
3679	Electronic components, n.e.c....	(X)	-	-	-	-	-	(2-5)	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(over 2)	-	-	-	(2-5)	(X)
3715	Truck trailers.....	(X)	-	-	-	-	-	(over 2)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	.3	-	-	-	-	(under 2)	(X)
3743	Railroad equipment.....	(X)	-	-	-	-	(under 2)	(over 2)	(X)
3823	Process control instruments....	(X)	-	-	-	-	-	(5-10)	(X)
3829	Measuring and controlling devices, n.e.c.....	(X)	(under 2)	-	-	-	(under 2)	(2-5)	(X)
3841	Surgical, medical instruments..	(X)	-	(over 2)	-	-	-	-	(X)
	Miscellaneous receipts, total....	(X)	139.3	71.1	40.7	58.1	134.2	258.9	(X)
93000 00	Contract work.....	(X)	10.9	8.4	2.5	5.7	4.1	18.8	(X)
99980 13	Sales of scrap and refuse.....	(X)	.9	(X)	.2	(X)	(X)	2.2	(X)
99980 31	Receipts for installation.....	(X)	6.7	3.9	(X)	(X)	6.5	73.7	(X)
99980 41	Receipts for research and development work.....	(X)	(X)	(X)	(X)	(X)	(X)	4.0	(X)
99980 61	Receipts for repair work.....	(X)	16.5	5.0	3.4	12.8	13.3	18.2	(X)
99980 98	Other miscellaneous receipts...	(X)	12.6	8.9	5.8	6.7	2.9	17.0	(X)
99989 00	Resales.....	(X)	91.7	44.9	28.8	32.9	107.4	125.0	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products—Continued	
3551	3443 Fabricated platework (boiler shops).....	4.6	3559	2819 Industrial inorganic chemicals, n.e.c.....	(10-20)
	3466 Crowns and closures.....	(5-10)		3079 Miscellaneous plastics products.....	3.5
	3469 Metal stampings, n.e.c.....	(10-20)		3356 Nonferrous rolling and drawing, n.e.c.....	(over 2)
	3523 Farm machinery and equipment.....	4.9		3357 Nonferrous wiredrawing and insulating.....	(over 2)
	3531 Construction machinery.....	(2-5)		3361 Aluminum foundries.....	(2-5)
	3541 Machine tools, metal-cutting types.....	(over 2)			
	3569 General industrial machinery, n.e.c.....	6.3		3423 Hand and edge tools, n.e.c.....	15.8
	3576 Scales and balances, except laboratory.....	4.0		3441 Fabricated structural metal.....	(2-5)
	3585 Refrigeration and heating equipment.....	2.1		3443 Fabricated platework (boiler shops).....	12.3
	3589 Service industry machinery, n.e.c.....	2.8		3483 Ammunition, except for small arms, n.e.c.....	(2-5)
	3634 Electric housewares and fans.....	(2-5)		3489 Ordnance, and accessories, n.e.c.....	(2-5)
				3494 Valves and pipe fittings.....	2.9
				3499 Fabricated metal products, n.e.c.....	(2-5)
3552	3041 Rubber and plastics hose and belting.....	(over 2)			
	3441 Fabricated structural metal.....	4.2		3531 Construction machinery.....	5.4
	3568 Power transmission equipment, n.e.c.....	(over 2)		3532 Mining machinery.....	3.3
				3535 Conveyors and conveying equipment.....	6.8
3553	3524 Lawn and garden equipment.....	(over 2)		3536 Hoists, cranes, and monorails.....	(over 2)
	3541 Machine tools, metal-cutting types.....	15.2		3541 Machine tools, metal-cutting types.....	11.7
	3542 Machine tools, metal-forming types.....	(2-5)		3542 Machine tools, metal-forming types.....	(2-5)
	3546 Power-driven handtools.....	4.5		3544 Special dies, tools, jigs, and fixtures.....	9.4
3554	3315 Steel wire and related products.....	(over 2)		3561 Pumps and pumping equipment.....	(10-20)
	3532 Mining machinery.....	(over 2)		3563 Air and gas compressors.....	(over 2)
	3545 Machine tool accessories.....	(2-5)		3564 Blowers and fans.....	(10-20)
	3569 General industrial machinery, n.e.c.....	(2-5)		3567 Industrial furnaces and ovens.....	10.7
	3731 Ship building and repairing.....	(over 2)		3569 General industrial machinery, n.e.c.....	23.3
				3599 Machinery, except electrical, n.e.c.....	6.4
3555	2751 Commercial printing, letterpress.....	(2-5)		3623 Welding apparatus, electric.....	(over 2)
	2899 Chemical preparations, n.e.c.....	(2-5)		3641 Electric lamps.....	(over 2)
	3011 Tires and inner tubes.....	(over 2)		3661 Telephone and telegraph apparatus.....	(over 2)
	3041 Rubber and plastics hose and belting.....	(over 2)		3674 Semiconductors and related devices.....	(over 2)
				3724 Aircraft engines and engine parts.....	(20-50)
	3569 General industrial machinery, n.e.c.....	(2-5)		3728 Aircraft equipment, n.e.c.....	4.9
	3573 Electronic computing equipment.....	(over 2)		3731 Ship building and repairing.....	(2-5)
	3579 Office machines, n.e.c.....	(5-10)			
	3622 Industrial controls.....	(over 2)		3825 Instruments to measure electricity.....	(over 2)
	3825 Instruments to measure electricity.....	(2-5)		3832 Optical instruments and lenses.....	(over 2)
	3861 Photographic equipment and supplies.....	(2-5)		3851 Ophthalmic goods.....	(over 2)
	3949 Sporting and athletic goods, n.e.c.....	(over 2)		3861 Photographic equipment and supplies.....	(10-20)
				3949 Sporting and athletic goods, n.e.c.....	(over 2)
				3952 Lead pencils and art goods.....	(over 2)

Note: Data shown parenthetically are ranges expressed in million of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3551- --	FOOD PRODUCTS MACHINERY, TOTAL.....		(X)	867.2	(X)	689.9
35511 --	Dairy and Milk Products Plant Machinery and Equipment, Except bottling and Packaging Machinery <sup>1</sup> .....		(X)	57.4	(X)	<sup>2</sup> 61.7
35511 15	Washing and sterilizing equipment.....	Units.....	(NA)	1.0	(NA)	<sup>2</sup> 1.0
35511 43	Pasteurizers.....	..do.....	(NA)	7.5	10.6	.4
35511 51	Homogenizers.....	..do.....	(NA)		( <sup>3</sup> )	( <sup>3</sup> )
35511 73	Ice cream freezers.....	..do.....	(NA)	22.6	(NA)	24.7
35511 83	Butter and cheese processing plant machinery and equipment.....	..do.....	(NA)	4.8	69.8	2.0
35511 91	Dry milk processing plant machinery and equipment.....	..do.....	(NA)	1.4		
35511 98	Other dairy and milk products processing plant machinery and equipment, excluding packaging machinery, but including cream separators (capacity over 1,500 pounds per hour).....	..do.....	(NA)	18.4	(X)	<sup>2</sup> 26.7
35511 00	Dairy and milk products plant machinery and equipment, except bottling and packaging machinery, n.s.k.....		(X)	1.7	(X)	6.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3551- --	FOOD PRODUCTS MACHINERY--Continued					
35512 --	Commercial Food Products Machinery, Except Wrapping Machines <sup>1</sup> .....		(X)	185.0	(X)	142.6
35512 11	Slicers.....	1,000 units..	28.8	18.8	29.3	13.8
35512 21	Choppers, grinders, cutters, dicers, and similar machines.....	..do.....	(NA)	21.5	25.8	13.4
35512 31	Mixers and whippers, except drink mixers.....	..do.....	16.4	20.4	16.3	15.2
35512 41	Other commercial food preparation machines, including tenderizers (power driven).....	..do.....	(X)	35.0	(X)	15.9
35512 51	Parts and attachments for commercial food preparation machines..	..do.....	(X)	21.8	(X)	11.6
35512 61	Bakery machinery and equipment: Dough mixers.....	Units.....	274	5.8	(NA)	7.7
35512 71	Bake ovens: Traveling tray.....	..do.....	(NA)	8.6	167	4.8
35512 75	Other.....	..do.....			2,489	13.0
35512 81	Slicing machines <sup>4</sup> .....	..do.....	1,075	.9	774	1.8
35512 87	Continuous breadmaking equipment.....	..do.....	(NA)	6.7		
35512 91	Other bakery machinery and equipment, except packaging machinery and wrapping machines.....	..do.....	(NA)	30.3	(NA)	27.8
35512 00	Commercial food products machinery, except wrapping machines, n.s.k.....		(X)	15.2	(X)	17.6
35513 --	Other Industrial Food Products Machinery (Except Packing and Bottling Machinery) and Parts and Attachments <sup>1</sup> .....		(X)	296.2	(X)	<sup>5</sup> 6227.9
35513 13	Meat and poultry processing and preparation machinery and equipment (killing, dehairing, stuffing, cooking rendering, etc.).....		(X)	59.7	(X)	<sup>5</sup> 49.6
35513 23	Fruit and vegetable canning machinery: Preparation machinery.....	Units.....	(NA)	43.0	(NA)	35.1
35513 29	All other fruit and vegetable canning machinery, excluding packing and packaging machinery.....		(X)	16.8	(X)	9.6
35513 39	Flour and grainmill machinery, except packing and packaging machinery.....		(X)	16.0	(X)	15.5
35513 49	Sugarplant machinery, including cane and beet mills crushers, pulverizers, crystallizers, granulators, etc., packing and packaging machinery.....		(X)	15.4	(X)	6.3
35513 51	Other industrial food products machinery: Fish and shellfish processing machinery (skinning, scaling, shelling, filet, etc.).....	Units.....	(NA)	.5		
35513 54	Oilseed crushing and extracting machinery and equipment.....	..do.....	(NA)	7.0		
35513 55	Vegetable oil processing machinery and equipment.....	..do.....			(X)	44.3
35513 58	Other industrial food products machinery, except packing and packaging machinery.....	..do.....	(NA)	72.7		
35513 67	Bottle washers and sterilizers.....	..do.....	114	13.0	287	13.8
35513 83	Parts and attachments for industrial food products machinery, except bottling, packing, and packaging machinery.....		(X)	29.0	(X)	<sup>6</sup> 34.8
35513 00	Other industrial products machinery (Except packing and bottling machinery and parts and attachments, n.s.k. <sup>7</sup> .....		(X)	23.1	(X)	18.9
35514 --	Packing, Packaging, and Bottling Machinery for industrial Food Products <sup>1</sup> .....		(X)	232.1	(X)	<sup>2</sup> <sup>3</sup> <sup>5</sup> <sup>6</sup> 183.0
35514 11	Fluid milk bottling, filling, packaging, and capping machines (glass, paper, and other materials).....	Units.....	(NA)	26.6	(NA)	14.0
35514 12	Butter, cheese, dry milk, and ice cream packaging machines.....	..do.....	(NA)	2.6	17.3	1.9
35514 13	Uncasers and casers.....	..do.....	(NA)	.6	( <sup>3</sup> )	( <sup>3</sup> )
35514 17	Capping and other dairy bottling machines.....	..do.....			( <sup>2</sup> )	( <sup>2</sup> )
35514 21	Meat and poultry packing and packaging machinery.....	Units.....	(NA)	14.4	( <sup>5</sup> )	( <sup>5</sup> )
35514 25	Fruit and vegetable wrapping, filling, and sealing machinery....	..do.....	(NA)	5.3	(NA)	19.9
35514 27	Fruit and vegetable packing machinery.....	..do.....	(NA)	19.7	1,630	6.8
35514 33	Flour and grainmill packing and packaging machinery.....	..do.....			(NA)	4.2
35514 43	Sugarplant packing and packaging machinery.....	..do.....	(NA)	5.6	(NA)	11.3
35514 56	Fish and shellfish packing and packaging machinery.....	..do.....				
35514 57	Packing and packaging machinery for industrial food products, except fish and shellfish.....	..do.....	(NA)	58.9	(X)	47.0
35514 61	Bottling machinery for foods (except dairy products), liquor, beer, wine, and other beverages: Carbonators (beverage bottling).....	..do.....	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )
35514 65	Filling, capping, and labeling machines.....	..do.....	1,312	27.7	2,854	49.6
35514 66	Uncasers and casers.....	..do.....	(NA)	5.4	(NA)	5.4
35514 69	Other food and beverage bottling machinery, except dairy.....	..do.....	<sup>8</sup> (NA)	<sup>8</sup> 17.2	<sup>8</sup> (X)	<sup>8</sup> 19.1
35514 85	Bakery products wrapping machine <sup>1</sup> .....	..do.....	907	9.1	388	3.8
35514 91	Parts for bottling, packing, and packaging machinery.....	..do.....	(X)	39.0	( <sup>6</sup> )	( <sup>6</sup> )
35510 00	Food products machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	81.0	(X)	63.1
35510 02	Food products machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	15.5	(X)	11.6

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3552- --	TEXTILE MACHINERY, TOTAL.....		(X)	738.1	(X)	652.6
35521 --	Textile Machinery:					
	Fiber-to-fabric textile machinery (except parts, attachments, and accessories.):		(X)	373.8	(X)	348.8
35521 15	Cleaning and opening machinery, including picker, garnetting, and other.....	1,000 units...	2.6	11.3	2.5	11.2
35521 25	Carding and combing machines.....	...do.....	1.0	16.8	.8	10.5
35521 36	Drawing and roving frames.....	...do.....			2.8	25.8
	Spinning frames:					
35521 42	Frames.....	...do.....	1.2	19.0	3.7	47.0
35521 46	Spindles.....	...do.....	322.4	(X)	1,070.6	(X)
	Twisting frames:					
35521 47	Frames.....	...do.....	.8	12.6	1.4	21.8
35521 48	Spindles.....	...do.....	220.4	(X)	223.9	(X)
	Yarn preparing machines:					
35521 51	Winding machines (skein, bobbin, quill, cone, etc.).....	...do.....	(NA)	21.9	1.3	19.9
35521 53	Other yarn preparing machines (beaming, warping, warp tying, warp drawing in, slashing, etc.).....	.....	(X)	23.8	(X)	13.3
35521 55	Other fiber-to-fabric machinery.....	.....	(X)	12.1	(X)	17.6
	Fabric machinery (except parts, attachments, and accessories.):					
35521 65	Power looms (including looms operating without shuttles), all types including cotton and synthetic broadlooms.....	1,000 units...	(*)	(*)	(*)	(*)
	Knitting machines:					
35521 72	Hosiery (circular and full-fashioned).....	...do.....				
35521 73	Double knit knitting machinery.....	...do.....				
35521 77	Warp knitting machines.....	...do.....				
35521 79	Other knitting machines.....	...do.....				
35521 84	Other fabric machinery, including lace, embroidery, braiding, and tufting machinery and hand looms.....	1,000 units...	(NA)	34.2	(NA)	48.9
35521 85	Bleaching, dyeing, and finishing machinery.....	.....	(X)	66.4	(X)	39.0
35521 87	Machinery for drying stocks, yarns, cloth, etc.....	.....	(X)	15.9	(X)	10.8
35521 98	Other textile industry machinery, n.e.c. (except parts, attachments, and accessories.).....	.....	(X)	54.7	(X)	27.2
35521 00	Textile machinery, n.s.k.....	.....	(X)	11.3	(X)	10.8
35522 --	Parts and Attachments for Textile Machinery.....		(X)	305.7	(X)	267.4
35522 11	Textile machinery turnings and shapes (bobbins, shuttles, spools, picker sticks, etc.).....		(X)	52.8	(X)	60.2
	Parts and attachments:					
	Fiber-to-fabric machinery:					
35522 22	Card clothing.....	Mil. sq. ft...	(NA)	22.3	3.5	18.9
35522 31	Other fiber-to-fabric machinery, except card cloth.....	.....	(X)	28.6	(X)	53.3
35522 41	Power looms.....	.....	(X)	56.5	(X)	64.5
35522 45	Knitting machines, excluding needles.....	.....	(X)	23.9	(X)	8.4
35522 53	Fabric machinery, except power looms and knitting machines....	.....	(X)	6.5	(X)	10.1
35522 71	Bleaching, dyeing, and finishing machinery.....	.....	(X)	13.0	(X)	5.6
35522 98	Other textile industries machinery.....	.....	(X)	91.9	(X)	39.8
35522 00	Parts and attachments for textile machinery, n.s.k.....	.....	(X)	10.2	(X)	6.7
35520 00	Textile machinery, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	40.4	(X)	27.4
35520 02	Textile machinery, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	18.2	(X)	9.0
3553- --	WOODWORKING MACHINERY, TOTAL.....		(X)	441.6	(X)	274.4
35531 --	Woodworking Machinery (Except Home Workshop), Including Parts and Attachments.....		(X)	372.5	(X)	231.2
35531 12	Sawmill equipment.....	.....	(X)	63.4	(X)	40.9
35531 15	Veneer and plywoodmaking, woodbox, and cratemaking machinery....	.....	(X)	26.5	(X)	15.8
35531 62	Sawing machines, except sawmill equipment and chain saws.....	1,000 units...	10.1	20.0	(NA)	11.8
35531 67	Chain saws.....	...do.....	1,199.3	102.1	555.1	63.8
35531 71	Jointers, matchers, molders, mortisers, shapers, and tenoners, except power-driven hand-held tools.....	...do.....	(NA)	18.6	(NA)	15.4
35531 81	Parts, attachments, and accessories for woodworking machinery (sold separately), excluding sawblades.....	.....	(X)	84.9	(X)	49.4

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3553- --	WOODWORKING MACHINERY--Continued					
35531 --	Woodworking Machinery (Except Home Workshop), Including Parts and Attachments--Continued					
35531 98	Other woodworking machinery (except power-driven hand-held tools), including lathes, planing machines, and surfacing machines, except hand-held.....		(X)	51.9	(X)	31.1
35531 00	Woodworking machinery (except home workshop), including parts and attachments, n.s.k.....		(X)	5.1	(X)	3.0
35532 --	Woodworking Machinery for Home Workshop (Except Power-Driven Handtools), Including Parts and Attachments.....		(X)	51.5	(X)	29.1
35532 21	Saws, including circular.....	1,000 units...	284.9	32.4	203.0	18.4
35532 81	Parts, attachments, and accessories for machine tools and woodworking machines designed primarily for home workshops, etc. (sold separately), except parts for power-driven handtools (excluding sawblades).....		(X)	6.6	(X)	3.5
35532 98	Other machine tools and woodworking machines designed primarily for home workshops, etc. (except power-driven handtools), including lathes, drilling machines, jointers, planers, and shapers.....		(X)	12.5	(X)	7.2
35530 00	Woodworking machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	8.0	(X)	8.7
35530 02	Woodworking machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	9.6	(X)	5.4
3554- --	PAPER INDUSTRIES MACHINERY, TOTAL.....		(X)	381.4	(X)	515.2
35540 11	Pulp and Paper Industries Machinery (New): Wood preparation equipment, including barkers, chippers, knotters, splitters, chipscreens, etc.....		(X)	15.2	(X)	9.8
35540 21	Pulp mill machinery: Grinders (for groundwood).....	Units.....			43.0	11.0
35540 25	Deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, and save-alls.....		(NA)	30.9	(X)	29.1
35540 29	Other pulpmill machinery, including digesters and recovery room equipment.....				(X)	9.7
35540 31	Papermill machinery: Beaters, jordans, and other stock preparation.....		(X)	18.9	(X)	18.7
35540 45	Paper machines: Calenders, including supercalenders.....	Units.....	(NA)	3.9	69	7.5
35540 41	Fourdriniers, including yankee machines.....	..do.....	( <sup>10</sup> )	( <sup>10</sup> )		
35540 43	Cylinder-type machines.....	..do.....	39	1.4		
35540 49	Other paper machinery, including forming and finishing machinery, but excluding calenders.....	..do.....	(NA)	<sup>10</sup> 42.2	(X)	154.8
35540 51	Paper and paperboard converting equipment: Bagmaking machines, including shipping sack machines, and envelope making machines.....	Units.....	(NA)	8.3	1,034	21.9
35540 53	Corrugated boxmaking machines.....	..do.....	1,007	27.1	1,920	36.0
35540 54	Box, carton, and shipping container making machines, except corrugated box machines.....	..do.....	(NA)	27.2	(NA)	29.4
35540 56	Toilet roll and napkin making machines.....	..do.....			257	13.1
35540 59	Other paper and paperboard converting equipment, including drum, can, and tube making machines.....		(NA)	38.0	(X)	34.6
35540 71	Rebuilt Pulp and Paper Industries Machinery: Rebuilt paper machines, including Fourdriniers, yankees, cylinders, and forming machines.....		(X)	41.5	(X)	43.9
35540 75	Other rebuilt pulp and paper industries machinery.....				(X)	2.4
35540 81	Parts and attachments for pulp mill, papermill, and paper converting machinery and equipment, sold separately.....		(X)	100.0	(X)	68.1
35540 00	Paper industries machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	21.1	(X)	22.6
35540 02	Paper industries machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	5.7	(X)	2.6

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers					
			1972		1967			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)		
3555- --	PRINTING TRADES MACHINERY, TOTAL.....		(X)	736.6	(X)	656.0		
35551 --	Printing Presses, Lithographic <sup>11</sup> .....		(X)	156.0	(X)	156.0		
	Offset lithographic:							
	Sheet-fed:							
	Single color:							
35551 21	From 22 inches up to and including 36 inches maximum sheet size.....	Complete presses.....	254	5.3	(NA)	11.9		
35551 22	Over 36 inches maximum sheet size.....						...do.....	
	Multicolor, including perfecting, 2- and 3-color:							
35551 24	From 22 inches up to and including 36 inches maximum sheet size.....	...do.....	97	9.9	450	59.4		
35551 25	Over 36 inches maximum sheet size.....	...do.....						
	Multicolor, including perfecting, 4-color and over:							
35551 28	From 22 inches up to and including 36 inches maximum sheet size.....	...do.....	138	29.0				
35551 29	Over 36 inches maximum sheet size.....	...do.....						
	Web-fed:							
35551 32	Newspaper.....	...do.....	609	47.8	376	55.7		
35551 33	Business form presses.....	...do.....	484	27.9	(NA)	27.7		
35551 35	Commercial (including heat-set).....	...do.....	132	25.9				
35551 36	All other.....	...do.....	(NA)	.9	(X)	121.3		
35551 00	Printing press, lithographic, n.s.k.....	...do.....	(X)	9.3				
35552 --	Printing Presses, Other Than Lithographic <sup>11</sup> .....		(X)	90.2	(X)	107.4		
	Letterpress (typographical, relief):							
35552 16	Sheet-fed, including platen, cylinder, and rotary types.....	Complete presses.....	254	2.4	982	5.3		
	Web-fed:							
35552 18	Commercial.....	...do.....	174	43.8	569	50.6		
35552 19	Newspaper.....	...do.....						
35552 37	Gravure, sheet-fed and web-fed.....	...do.....	66	10.7	77	15.1		
35552 38	Flexographic, sheet-fed and web-fed 15-100.....	...do.....	(NA)	3.8	158	10.7		
35552 41	Other printing presses, including metal decorating, proof, and rebuilt.....	...do.....	(NA)	25.8	(NA)	25.7		
35552 00	Printing presses, other than lithographic, n.s.k.....	...do.....	(X)	3.7	( <sup>12</sup> )	( <sup>12</sup> )		
35553 --	Typesetting Machinery and Equipment <sup>11</sup> .....		(X)	104.1	(X)	94.3		
	Typesetting machinery and equipment (excluding justifying typewriters):							
35553 43	Photographic typesetting machine, including integral computer.	Units.....	8,745	82.7	(NA)	38.6		
35553 45	Keyboard input devices.....	...do.....	2,170	6.0	(NA)	(NA)		
35553 51	Hot metal typesetting machines.....	...do.....	( <sup>13</sup> )	( <sup>13</sup> )	( <sup>14</sup> )	( <sup>14</sup> )		
35553 53	Matrices for hot metal machines.....	...do.....	(NA)	8.8	(NA)	21.4		
35553 54	Matrices for phototypesetting machines.....	...do.....	( <sup>13</sup> )	( <sup>13</sup> )				
35553 56	Other typesetting machines (excluding cameras).....	...do.....	(NA)	136.6	(NA)	1434.3		
35554	Bindery Equipment <sup>11</sup> .....		(X)	33.5	(X)	30.8		
	Binding machinery and equipment, except papercutting, collating, or gathering machines:							
35554 63	Saddle binding equipment.....	Units.....	462	10.8	(NA)	30.8		
35554 64	Perfect and hard case (edition) binding equipment.....	...do.....	(NA)	22.7				
35554 65	Other binding machinery and equipment, n.e.c., including folding equipment.....	...do.....						
35555 --	Other Printing Trades Machinery and Equipment and Parts and Attachments for All Printing Trades Machinery and Equipment <sup>11</sup> ....		(X)	303.5	(X)	267.2		
35555 62	Electrotyping and stereotyping machinery and equipment.....		(X)	3.3	(X)	7.1		
35555 61	Other printing industry pre-press preparatory equipment, including photocomposing equipment, etching equipment etc. (excluding typesetting equipment and cameras).....		(X)	11.9	(X)	6.6		
35555 66	Paper cutting machines.....		(X)	6.4	(X)	12.3		
35555 67	Collating and/or gathering machines (sold separately).....		(X)	16.5	(X)	18.6		
35555 69	Engravers' materials and equipment, including metalplates, etc..		(X)	21.2	(X)	13.6		
	Other printing machinery and equipment, including parts, attachments, and accessories for printing trades machinery and equipment (sold separately):							
	Rollers and blankers and printers' rolls and platens:							
35555 71	Rubber and plastic.....		(X)	41.6	(X)	42.2		
35555 73	Other.....		(X)	7.7				
35555 74	Platens, excluding typewriter.....		(X)	-				

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3555- --	PRINTING TRADES MACHINERY--Continued					
35555 --	Other Printing Trades Machinery and Equipment and Parts and Attachments for All Printing Trades Machinery and Equipment--Continued					
35555 75	Foundry type, rules, leads, slugs, borders, and ornaments.....		(X)	1.9	(X)	4.9
35555 83	Parts, attachments, and accessories for printing presses (sold separately), including flying pasters, dryers, folders, and reels.....		(X)	58.8		
35555 85	Parts, attachments, and accessories for typesetting machines (sold separately).....		(X)	18.3		
35555 87	Parts, attachments, and accessories for binder equipment (sold separately).....		(X)	11.7	(X)	59.6
35555 89	Parts, attachments, and accessories for other printing trades machinery and equipment (sold separately).....		(X)	7.9		
35555 98	Other printing trades machinery and equipment.....		(X)	85.7	(X)	60.3
35555 00	Other printing trades machinery and equipment and parts and attachments for all printing trades machinery and equipment, n.s.k. ....		(X)	10.6	(X)	153.9
35550 00	Printing trades machinery, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	31.5	(X)	26.2
35550 02	Printing trades machinery, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	17.8	(X)	11.9
3559- --	SPECIAL INDUSTRY MACHINERY, N.E.C., TOTAL.....		(X)	2,367.1	(X)	1,670.3
35591 11	Chemical manufacturing industries machinery and equipment, and parts.....		(X)	212.5	(X)	284.5
35592 --	Foundry Machinery and Equipment.....		(X)	132.3	(X)	143.9
35592 21	Foundry pouring equipment, including ladles, crucibles, and pouring machines.....		(X)	(D)	(X)	24.9
	Molding machines:					
35592 33	Green sand.....		(X)	4.8		
35592 35	Other.....		(X)	(D)	(X)	17.1
	Blast cleaning machines:					
35592 53	Airless, hydraulic, and pneumatic.....		(X)	21.1	(X)	36.7
35592 55	Tumbling and finishing machines.....		(X)	3.5		
35592 41	Foundry flasks.....		(X)	75.3		
35592 98	Other foundry machinery, including core-making machines and parts for foundry machinery and equipment.....		(X)	5.7	(X)	2.0
35592 00	Foundry machinery and equipment, n.s.k.....		(X)			
35593 --	Plastics-Working Machinery and Equipment, Excluding Patterns and Molds.....		(X)	434.1	(X)	247.6
35593 11	Compression molding machines.....	Units.....	(NA)	12.4	(NA)	13.8
35593 33	Extrusion machines.....	do.....	3,666	66.2	2,547	46.3
35593 51	Injection molding machines.....	do.....	4,667	202.3	3,906	85.1
35593 61	Blow molding machines.....	do.....	231	15.5	(NA)	12.9
35593 98	Other plastics-working machinery and equipment, including parts for plastics-working machinery.....		(X)	129.8	(X)	82.9
35593 00	Plastics-working machinery and equipment, excluding patterns and molds, n.s.k.....		(X)	7.9	(X)	6.7
35594 --	Rubber-Working Machinery and Equipment, Excluding Tire Molds.....		(X)	137.3	(X)	116.6
35594 11	High-intensity solids mixers.....		(X)	(16)	(X)	11.6
35594 31	Extruding machines.....	Units.....	230	5.9	245	6.5
35594 41	Vulcanizing presses.....	do.....	656	34.7	1,017	19.9
35594 51	Tire-building equipment, except tire molds.....		(X)	21.6	(X)	17.1
35594 71	Tire recapping and repairing machinery and equipment, including recapping vulcanizers.....		(X)	11.9	(X)	20.3
35594 98	Other rubber-working machinery, including calendaring machines and parts for rubber-working machinery, but excluding tire molds.....		(X)	1656.8	(X)	38.3
35594 00	Rubber-working machinery and equipment, excluding tire molds, n.s.k.....		(X)	6.4	(X)	2.9

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measura	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3559- --	SPECIAL INDUSTRY MACHINERY, N.E.C.--Continued					
35595 --	Other Special Industry Machinery and Equipment <sup>17</sup> .....		(X)	1,281.4	(X)	778.6
35595 11	Petroleum refinery machinery and equipment, including parts.....		(X)	40.2	(X)	53.4
35595 21	Ammunition and explosives loading machinery and equipment, and parts.....		(X)	9.0	(X)	4.3
	Tobacco manufacturing machinery and equipment:					
35595 31	Cigarette and cigarmaking machines.....	Units.....	(NA)	3.6	990	6.9
35595 33	Cigarette, cigar, and tobacco packaging and wrapping machines.....					
35595 39	Other tobacco manufacturing machinery and equipment, and parts			10.3	(X)	6.0
35595 41	Clayworking machinery and equipment, and parts (brick, tile, and ceramics.).....		(X)	19.5	(X)	16.5
35595 43	Cementmaking machinery and equipment and parts, other than cement kilns.....		(X)	19.2	(X)	8.1
	Concrete products machinery and equipment:					
35595 45	Concrete block machines.....	Units.....	703	6.8	735	7.3
35595 49	Other concrete products machinery and equipment and parts, including concrete pipemaking machines.....		(X)	59.9	(X)	32.0
	Glassmaking machinery and equipment:					
35595 51	Bottle-forming machines.....	Units.....	(NA)	52.3	224	11.4
35595 55	Other glassmaking machinery and equipment and parts, except lehrs.....				(X)	33.6
35595 62	Shoemaking and repairing machinery and equipment and parts, including sole stitching machines.....		(X)	57.2	(X)	35.3
35595 73	Cotton ginning machinery and equipment and parts.....		(X)	26.5	(X)	18.7
35595 81	Metal cleaning, degreasing, finishing, and drying machinery and equipment and parts.....		(X)	93.5	(X)	97.9
35595 85	Electronic tubemaking machinery and equipment and parts.....		(X)	18.5	(X)	10.4
35595 89	Other special industry machinery and equipment and parts, including incandescent lampmaking, paintmaking, stoneworking, hatmaking, leatherworking, jewelers', pharmaceutical, etc.....		(X)	715.5	(X)	314.8
35595 91	Electric nonmetallic processing industrial furnaces and ovens, including kilns and lehrs.....		(X)	13.0	(X)	16.2
35595 92	Fuel-fired kilns (cement, wood, and chemical processing).....	Units.....	204	13.7	427	30.0
35595 93	Other nonmetallic processing industrial furnaces and ovens and parts, including kilns and lehrs.....		(X)	58.2	(X)	20.6
35595 00	Other special industry machinery and equipment, n.s.k.....		(X)	64.5	(X)	55.2
35595 00	Special industry machinery, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	128.8	(X)	81.1
35590 02	Special industry machinery, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	40.7	(X)	17.9

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The product class structure for this industry is revised effective with 1972. The effect of this change is to combine into a separate product class all packing, packaging, and bottling machinery for industrial food products.

<sup>2</sup>1967 data on capping and other dairy bottling machines (code 35514 17) combined with product code 35511 15, washing and sterilizing equipment.

<sup>3</sup>1967 data for product code 35514 13, uncasers and casers, and product code 35511 51, homogenizers, are included with product code 35511 98, other dairy and milk products processing machinery.

<sup>4</sup>For combination slicing and wrapping machines, the number and value of slicing units are included with slicing machines (code 35512 81) and the number and value of wrapping units with wrapping machines (code 35514 85).

<sup>5</sup>1967 data for product code 35514 21, meat and poultry packing and packaging machinery, are combined with product code 35513 13, meat and poultry processing and preparation machinery and equipment (killing, dehairing, stuffing, cooking, rendering, etc.).

<sup>6</sup>For 1967, product code 35514 91 is combined with product code 35513 83.

<sup>7</sup>Also includes packing, packaging, and bottling machinery for industrial food products, n.s.k.

<sup>8</sup>Data for product code 35514 61, carbonators (beverage bottling), are combined in product code 35514 69, other food and beverage bottling machinery, except dairy.

<sup>9</sup>Data for product code 35521 65, power looms, are included with product code 35521 84, other fabric machinery, to avoid disclosing figures for individual companies.

<sup>10</sup>Data for product code 35540 41, Fourdriniers, including yankee machines, are included in product code 35540 49, other paper machinery, to avoid disclosing figures for individual companies.

<sup>11</sup>The product class structure of this industry has been significantly changed effective in 1972.

<sup>12</sup>1967 data for lithographic printing presses, n.s.k., also includes other printing presses, n.s.k.

<sup>13</sup>Data for 1972 on product codes 35553 51 and 35553 54 are included in product code 35553 56.

<sup>14</sup>Data for 1967 on product code 35553 51 are included in product code 35553 56.

<sup>15</sup>Includes bindery equipment, n.s.k., and typesetting machinery and equipment, n.s.k.

<sup>16</sup>"High-intensity solids mixers" are included with "Other rubber-working machinery..." to avoid disclosure of individual companies for 1972.

<sup>17</sup>Some equipment in this product class may be leased rather than sold outright. For leased equipment, estimates of the value of products produced were reported. These estimates approximate the value of the products had they been sold outright, and are based on market values of the products, tax or insurance valuations, etc.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
<b>DAIRY AND MILK PRODUCTS PLANT MACHINERY AND EQUIPMENT<sup>1</sup> (35511)</b>			<b>OTHER INDUSTRIAL FOOD PRODUCTS MACHINERY AND PARTS AND ATTACHMENTS (35513)--Continued</b>		
United States.....	57.4	(NA)	North Central Region.....	134.2	(NA)
Northeast Region.....	CC	(NA)	East North Central Division.....	98.2	(NA)
Middle Atlantic Division.....	CC	(NA)	Ohio.....	37.7	(NA)
New York.....	BB	(NA)	Indiana.....	11.0	(NA)
New Jersey.....	AA	(NA)	Illinois.....	24.8	(NA)
Pennsylvania.....	BB	(NA)	Michigan.....	5.7	(NA)
North Central Region.....	44.4	(NA)	Wisconsin.....	19.0	(NA)
East North Central Division.....	34.8	(NA)	West North Central Division.....	36.0	(NA)
Illinois.....	EE	(NA)	Minnesota.....	AA	(NA)
Wisconsin.....	EE	(NA)	Iowa.....	17.8	(NA)
West North Central Division.....	9.6	(NA)	Missouri.....	8.3	(NA)
Minnesota.....	BB	(NA)	Nebraska.....	AA	(NA)
Iowa.....	CC	(NA)	Kansas.....	5.6	(NA)
West Region.....	BB	(NA)	South Region.....	58.8	(NA)
Pacific Division.....	BB	(NA)	South Atlantic Division.....	42.8	(NA)
California.....	BB	(NA)	Maryland.....	1.8	(NA)
			North Carolina.....	BB	(NA)
			Georgia.....	13.0	(NA)
			Florida.....	24.3	(NA)
			East South Central Division.....	6.6	(NA)
			Kentucky.....	CC	(NA)
			West South Central Division.....	9.4	(NA)
			Louisiana.....	3.2	(NA)
			Oklahoma.....	BB	(NA)
			Texas.....	AA	(NA)
			West Region.....	60.2	(NA)
			Mountain Division.....	2.6	(NA)
			Utah.....	AA	(NA)
			Pacific Division.....	57.6	(NA)
			Washington.....	AA	(NA)
			Oregon.....	3.9	(NA)
			California.....	50.8	(NA)
			Hawaii.....	AA	(NA)
<b>COMMERCIAL FOOD PRODUCTS MACHINERY (35512)</b>			<b>PACKING, PACKAGING, AND BOTTLING MACHINERY FOR INDUSTRIAL FOOD PRODUCTS<sup>1</sup> (35514)</b>		
United States.....	185.0	<sup>2</sup> 146.4	United States.....	232.1	(NA)
Northeast Region.....	31.1	28.1	Northeast Region.....	57.2	(NA)
New England Division.....	8.6	9.0	New England Division.....	33.5	(NA)
Massachusetts.....	BB	CC	Massachusetts.....	FF	(NA)
Connecticut.....	BB	BB	Connecticut.....	CC	(NA)
Middle Atlantic Division.....	22.4	19.1	Middle Atlantic Division.....	23.7	(NA)
New York.....	8.6	9.8	New York.....	EE	(NA)
New Jersey.....	3.9	1.3	Pennsylvania.....	11.8	(NA)
Pennsylvania.....	10.0	8.1	North Central Region.....	99.6	(NA)
North Central Region.....	107.8	82.6	East North Central Division.....	83.6	(NA)
East North Central Division.....	100.8	77.6	Ohio.....	11.9	(NA)
Ohio.....	50.9	34.9	Indiana.....	CC	(NA)
Indiana.....	9.6	9.0	Illinois.....	33.1	(NA)
Illinois.....	24.0	15.2	Michigan.....	CC	(NA)
Michigan.....	EE	16.4	Wisconsin.....	23.0	(NA)
Wisconsin.....	BB	2.2	West North Central Division.....	16.0	(NA)
West North Central Division.....	7.0	4.9	Minnesota.....	BB	(NA)
Minnesota.....	5.5	2.9	Iowa.....	CC	(NA)
Missouri.....	AA	(NA)	Missouri.....	BB	(NA)
South Region.....	26.7	24.1	South Region.....	43.6	(NA)
South Atlantic Division.....	14.0	19.2	South Atlantic Division.....	34.3	(NA)
Maryland.....	BB	3.8	Maryland.....	FF	(NA)
Virginia.....	CC	CC	Virginia.....	2.5	(NA)
Georgia.....	4.0	BB	North Carolina.....	BB	(NA)
East South Central Division.....	8.5	AA	Georgia.....	CC	(NA)
Kentucky.....	BB	AA	West South Central Division.....	CC	(NA)
Tennessee.....	CC	(NA)	Oklahoma.....	AA	(NA)
West South Central Division.....	4.3	BB	Texas.....	CC	(NA)
Texas.....	BB	BB	West Region.....	31.7	(NA)
West Region.....	19.3	11.6	Mountain Division.....	BB	(NA)
Mountain Division.....	BB	(NA)	Colorado.....	BB	(NA)
Wyoming.....	BB	(NA)	Pacific Division.....	FF	(NA)
Pacific Division.....	EE	EE	Washington.....	AA	(NA)
Washington.....	3.0	AA	California.....	25.6	(NA)
California.....	13.0	9.8			
<b>OTHER INDUSTRIAL FOOD PRODUCTS MACHINERY AND PARTS AND ATTACHMENTS<sup>1</sup> (35513)</b>					
United States.....	296.2	(NA)			
Northeast Region.....	42.9	(NA)			
New England Division.....	7.8	(NA)			
Massachusetts.....	3.5	(NA)			
Connecticut.....	BB	(NA)			
Middle Atlantic Division.....	35.1	(NA)			
New York.....	15.4	(NA)			
New Jersey.....	8.1	(NA)			
Pennsylvania.....	11.5	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TEXTILE MACHINERY (35521)			WOODWORKING MACHINERY (EXCEPT HOME WORKSHOP), INCLUDING PARTS AND ATTACHMENTS (35531)--Con.		
United States.....	373.8	348.8	South Region.....	125.4	83.9
Northeast Region.....	194.6	191.6	South Atlantic Division.....	73.1	GG
New England Division.....	97.3	108.9	North Carolina.....	FF	FF
New Hampshire.....	EE	CC	South Carolina.....	EE	CC
Vermont.....	BB	AA	Georgia.....	BB	(NA)
Massachusetts.....	43.8	75.5	Florida.....	BB	(NA)
Rhode Island.....	32.5	23.6	East South Central Division.....	FF	FF
Connecticut.....	AA	( <sup>1</sup> )	Tennessee.....	10.3	7.5
Middle Atlantic Division.....	97.3	82.7	Alabama.....	CC	CC
New York.....	27.9	19.2	Mississippi.....	EE	CC
New Jersey.....	13.8	9.2	West South Central Division.....	FF	8.3
Pennsylvania.....	55.5	54.2	Arkansas.....	BB	(NA)
North Central Region.....	6.4	17.8	Louisiana.....	EE	CC
East North Central Division.....	CC	EE	Texas.....	CC	BB
Ohio.....	3.0	BB	West Region.....	144.3	63.5
Illinois.....	AA	EE	Mountain Division.....	EE	BB
South Region.....	172.0	GG	Idaho.....	AA	( <sup>1</sup> )
South Atlantic Division.....	157.8	GG	Arizona.....	EE	BB
North Carolina.....	96.4	75.6	Pacific Division.....	GG	GG
South Carolina.....	46.0	43.3	Washington.....	FF	EE
Georgia.....	EE	11.7	Oregon.....	39.5	26.8
East South Central Division.....	EE	CC	California.....	55.7	EE
Tennessee.....	12.4	7.9			
PARTS AND ATTACHMENTS FOR TEXTILE MACHINERY (35522)			HOME-SHOP WOODWORKING MACHINERY EXCEPT POWER HAND TOOLS (35532)		
United States.....	305.7	267.4	United States.....	51.5	29.1
Northeast Region.....	132.3	126.9	Northeast Region.....	5.8	CC
New England Division.....	87.4	84.2	Middle Atlantic Division.....	CC	CC
New Hampshire.....	EE	9.4	Pennsylvania.....	BB	CC
Massachusetts.....	53.9	41.5	North Central Region.....	1.2	2.6
Rhode Island.....	22.1	FF	South Region.....	FF	EE
Middle Atlantic Division.....	45.0	42.7	South Atlantic Division.....	AA	( <sup>1</sup> )
New York.....	13.1	5.6	East South Central Division.....	FF	EE
New Jersey.....	4.3	12.2	Kentucky.....	AA	AA
Pennsylvania.....	27.6	24.9	Tennessee.....	FF	EE
North Central Region.....	10.0	19.6	Mississippi.....	EE	BB
East North Central Division.....	CC	EE			
Ohio.....	AA	4.7	PRINTING PRESSES, LITHOGRAPHIC <sup>3</sup> (35551)		
Illinois.....	CC	CC	United States.....	156.0	(NA)
South Region.....	163.4	EE	Northeast Region.....	43.1	(NA)
South Atlantic Division.....	155.0	EE	New England Division.....	FF	(NA)
Virginia.....	AA	( <sup>1</sup> )	Massachusetts.....	BB	(NA)
North Carolina.....	68.4	51.1	Connecticut.....	EE	(NA)
South Carolina.....	75.6	50.4	Middle Atlantic Division.....	FF	(NA)
Georgia.....	CC	13.3	New York.....	7.3	(NA)
East South Central Division.....	CC	BB	New Jersey.....	CC	(NA)
Tennessee.....	8.1	BB	Pennsylvania.....	EE	(NA)
WOODWORKING MACHINERY (EXCEPT HOME WORKSHOP), INCLUDING PARTS AND ATTACHMENTS (35531)			North Central Region.....	89.1	(NA)
United States.....	372.5	231.2	East North Central Division.....	59.1	(NA)
Northeast Region.....	15.6	14.7	Ohio.....	FF	(NA)
New England Division.....	4.7	3.1	Illinois.....	FF	(NA)
New Hampshire.....	BB	BB	Wisconsin.....	BB	(NA)
Middle Atlantic Division.....	10.9	11.7	West North Central Division.....	29.9	(NA)
New York.....	2.8	BB	Iowa.....	EE	(NA)
New Jersey.....	AA	AA	Missouri.....	CC	(NA)
Pennsylvania.....	CC	7.4	Kansas.....	CC	(NA)
North Central Region.....	87.1	69.1	South Region.....	EE	(NA)
East North Central Division.....	78.1	60.8	South Atlantic Division.....	BB	(NA)
Ohio.....	12.5	12.2	Virginia.....	BB	(NA)
Indiana.....	5.2	5.1	West South Central Division.....	EE	(NA)
Illinois.....	40.0	25.7	Texas.....	EE	(NA)
Michigan.....	5.5	7.2	West Region.....	CC	(NA)
Wisconsin.....	14.9	10.6	Pacific Division.....	CC	(NA)
West North Central Division.....	8.9	8.3	California.....	CC	(NA)
Minnesota.....	8.6	CC			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PRINTING PRESSES, OTHER THAN LITHO-GRAPHIC <sup>3</sup> (35552)			OTHER PRINTING TRADE MACHINERY, EQUIPMENT, AND PARTS <sup>3</sup> (35555)		
United States.....	90.2	(NA)	United States.....	303.5	(NA)
Northeast Region.....	46.6	(NA)	Northeast Region.....	138.9	(NA)
New England Division.....	EE	(NA)	New England Division.....	49.9	(NA)
New Hampshire.....	CC	(NA)	New Hampshire.....	BB	(NA)
Massachusetts.....	AA	(NA)	Massachusetts.....	32.1	(NA)
Connecticut.....	CC	(NA)	Rhode Island.....	BB	(NA)
Middle Atlantic Division.....	FF	(NA)	Connecticut.....	11.8	(NA)
New York.....	BB	(NA)	Middle Atlantic Division.....	89.0	(NA)
New Jersey.....	13.9	(NA)	New York.....	25.7	(NA)
Pennsylvania.....	12.9	(NA)	New Jersey.....	42.4	(NA)
			Pennsylvania.....	20.9	(NA)
North Central Region.....	36.7	(NA)	North Central Region.....	117.6	(NA)
East North Central Division.....	34.1	(NA)	East North Central Division.....	101.0	(NA)
Ohio.....	2.5	(NA)	Ohio.....	28.1	(NA)
Illinois.....	FF	(NA)	Indiana.....	1.2	(NA)
West North Central Division.....	2.6	(NA)	Illinois.....	56.4	(NA)
Minnesota.....	AA	(NA)	Michigan.....	11.3	(NA)
Missouri.....	AA	(NA)	Wisconsin.....	3.9	(NA)
South Region.....	CC	(NA)	West North Central Division.....	16.7	(NA)
South Atlantic Division.....	5.5	(NA)	Minnesota.....	6.1	(NA)
Maryland.....	AA	(NA)	Iowa.....	AA	(NA)
Florida.....	BB	(NA)	Missouri.....	3.8	(NA)
West Region.....	AA	(NA)	Kansas.....	CC	(NA)
Pacific Division.....	AA	(NA)			
California.....	AA	(NA)	South Region.....	35.0	(NA)
			South Atlantic Division.....	20.4	(NA)
TYPE SETTING MACHINERY AND EQUIPMENT <sup>3</sup> (35553)			Maryland.....	BB	(NA)
United States.....	104.1	(NA)	Virginia.....	AA	(NA)
Northeast Region.....	78.8	(NA)	West Virginia.....	BB	(NA)
New England Division.....	FF	(NA)	North Carolina.....	CC	(NA)
Massachusetts.....	FF	(NA)	Georgia.....	AA	(NA)
Middle Atlantic Division.....	FF	(NA)	Florida.....	BB	(NA)
New York.....	3.6	(NA)	East South Central Division.....	BB	(NA)
New Jersey.....	14.7	(NA)	Kentucky.....	AA	(NA)
Pennsylvania.....	EE	(NA)	West South Central Division.....	EE	(NA)
North Central Region.....	5.7	(NA)	Arkansas.....	AA	(NA)
East North Central Division.....	CC	(NA)	Texas.....	CC	(NA)
Illinois.....	BB	(NA)			
South Region.....	CC	(NA)	West Region.....	12.0	(NA)
South Atlantic Division.....	CC	(NA)	Mountain Division.....	AA	(NA)
Virginia.....	CC	(NA)	Arizona.....	AA	(NA)
Florida.....	BB	(NA)	Pacific Division.....	EE	(NA)
West Central Division.....	BB	(NA)	California.....	9.9	(NA)
Texas.....	BB	(NA)			
West Region.....	CC	(NA)	CHEMICAL MANUFACTURING INDUSTRIES MACHINERY, EQUIPMENT, AND PARTS (35591)		
Pacific Division.....	CC	(NA)	United States.....	212.5	284.5
Washington.....	CC	(NA)	Northeast Region.....	103.5	157.0
California.....	BB	(NA)	New England Division.....	22.2	26.3
			Massachusetts.....	EE	FF
			Rhode Island.....	CC	(NA)
			Middle Atlantic Division.....	81.3	130.6
			New York.....	35.6	51.5
			New Jersey.....	31.9	31.0
			Pennsylvania.....	13.8	48.1
BINDERY EQUIPMENT <sup>3</sup> (35554)					
United States.....	33.5	(NA)	North Central Region.....	51.1	69.7
Northeast Region.....	16.8	(NA)	East North Central Division.....	40.9	65.9
New England Division.....	BB	(NA)	Ohio.....	26.3	38.8
Connecticut.....	BB	(NA)	Illinois.....	6.6	18.2
Middle Atlantic Division.....	EE	(NA)	Michigan.....	CC	CC
New York.....	EE	(NA)	West North Central Division.....	10.3	3.8
Pennsylvania.....	BB	(NA)	Minnesota.....	BB	BB
North Central Region.....	14.6	(NA)	Iowa.....	5.3	(NA)
East North Central Division.....	EE	(NA)	Kansas.....	BB	(NA)
Ohio.....	CC	(NA)			
Illinois.....	CC	(NA)	South Region.....	50.0	52.6
Michigan.....	AA	(NA)	South Atlantic Division.....	24.7	27.5
West North Central Division.....	AA	(NA)	Delaware.....	EE	EE
Kansas.....	AA	(NA)	Maryland.....	CC	BB
South Region.....	2.2	(NA)	North Carolina.....	CC	CC
West South Central Division.....	AA	(NA)	East South Central Division.....	7.0	11.6
Arkansas.....	AA	(NA)	Kentucky.....	AA	CC
			Alabama.....	BB	BB

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CHEMICAL MANUFACTURING INDUSTRIES MACHINERY, EQUIPMENT, AND PARTS (35591)--Continued			PLASTICS WORKING MACHINERY AND EQUIPMENT, EXCEPT PATTERNS (35593)--Continued		
South Region--Continued			South Region--Continued		
West South Central Division.....	18.3	13.5	East South Central Division.....	2.5	(NA)
Arkansas.....	BB	(NA)	Kentucky.....	2.1	(NA)
Louisiana.....	BB	(NA)	West South Central Division.....	2.6	(NA)
Oklahoma.....	BB	AA	Oklahoma.....	BB	(NA)
Texas.....	CC	EE			
West Region.....	7.9	5.2	West Region.....	6.3	2.3
Pacific Division.....	CC	CC	Pacific Division.....	5.9	BB
Washington.....	AA	AA	California.....	CC	BB
California.....	CC	BB			
FOUNDRY MACHINERY AND EQUIPMENT, EXCEPT PATTERNS AND MOLDS (35592)			RUBBER WORKING MACHINERY AND EQUIPMENT, EXCEPT TIRE MOLDS <sup>4</sup> (35594)		
United States.....	132.3	143.9	United States.....	137.3	116.6
Northeast Region.....	8.2	FF	Northeast Region.....	20.2	21.3
Middle Atlantic Division.....	8.2	FF	New England Division.....	EE	EE
New Jersey.....	2.2	(NA)	Connecticut.....	EE	EE
Pennsylvania.....	6.0	21.0	Middle Atlantic Division.....	CC	CC
			New York.....	AA	3.7
North Central Region.....	99.1	96.9	Pennsylvania.....	6.9	3.9
East North Central Division.....	GG	95.7	North Central Region.....	109.3	80.6
Ohio.....	31.6	FF	East North Central Division.....	GG	78.6
Indiana.....	FF	FF	Ohio.....	97.6	72.3
Illinois.....	29.7	28.6	Illinois.....	3.1	AA
Michigan.....	CC	17.0	Michigan.....	CC	BB
Wisconsin.....	5.3	BB	West North Central Division.....	BB	2.0
West North Central Division.....	AA	1.1	Iowa.....	BB	( <sup>1</sup> )
Minnesota.....	AA	(NA)	South Region.....	BB	BB
South Region.....	FF	EE	South Atlantic Division.....	BB	BB
South Atlantic Division.....	EE	EE	Virginia.....	AA	(NA)
Maryland.....	EE	EE	North Carolina.....	BB	BB
West South Central Division.....	AA	(NA)	West Region.....	BB	EE
Oklahoma.....	AA	(NA)	Pacific Division.....	BB	EE
			California.....	BB	12.4
West Region.....	BB	4.7			
Pacific Division.....	BB	BB	OTHER SPECIAL INDUSTRIAL MACHINERY AND EQUIP- MENT (35595)		
Oregon.....	AA	( <sup>1</sup> )	United States.....	1,281.4	778.6
California.....	AA	BB	Northeast Region.....	389.6	294.6
			New England Division.....	165.4	88.3
PLASTICS WORKING MACHINERY AND EQUIPMENT, EXCEPT PATTERNS (35593)			Maine.....	BB	4.3
United States.....	434.1	247.6	New Hampshire.....	3.7	AA
Northeast Region.....	216.6	145.3	Vermont.....	AA	(NA)
New England Division.....	122.5	79.1	Massachusetts.....	92.4	60.5
Maine.....	AA	(NA)	Rhode Island.....	2.0	AA
New Hampshire.....	FF	CC	Connecticut.....	GG	19.4
Vermont.....	AA	BB	Middle Atlantic Division.....	224.1	206.3
Massachusetts.....	59.7	30.6	New York.....	47.4	53.0
Rhode Island.....	AA	BB	New Jersey.....	63.0	63.7
Connecticut.....	FF	32.2	Pennsylvania.....	113.7	89.6
Middle Atlantic Division.....	94.1	66.2	North Central Region.....	429.9	257.9
New York.....	FF	10.1	East North Central Division.....	386.5	227.0
New Jersey.....	43.5	39.5	Ohio.....	107.8	52.6
Pennsylvania.....	FF	16.6	Indiana.....	38.5	26.9
			Illinois.....	109.9	56.5
North Central Region.....	193.5	96.2	Michigan.....	76.8	56.8
East North Central Division.....	GG	94.8	Wisconsin.....	53.5	34.3
Ohio.....	127.8	54.2	West North Central Division.....	43.4	30.9
Indiana.....	EE	EE	Minnesota.....	17.5	6.2
Illinois.....	6.1	(NA)	Iowa.....	15.6	9.7
Michigan.....	31.1	BB	Missouri.....	BB	6.4
Wisconsin.....	12.0	5.2	Nebraska.....	AA	(NA)
West North Central Division.....	AA	1.4	Kansas.....	4.8	8.2
South Region.....	17.7	3.7	South Region.....	337.3	99.0
South Atlantic Division.....	12.6	BB	South Atlantic Division.....	237.7	39.4
Delaware.....	1.9	(NA)	Maryland.....	30.6	CC
Virginia.....	BB	(NA)	Virginia.....	8.3	3.0
South Carolina.....	BB	(NA)	North Carolina.....	GG	8.9
Georgia.....	AA	(NA)	South Carolina.....	CC	(NA)
Florida.....	AA	(NA)	Georgia.....	CC	CC
			Florida.....	16.0	CC

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER SPECIAL INDUSTRIAL MACHINERY AND EQUIPMENT (35595)--Continued			OTHER SPECIAL INDUSTRIAL MACHINERY AND EQUIPMENT (35595)--Continued		
South Region--Continued			South Region--Continued		
East South Central Division.....	28.8	20.9	West South Central Division--Continued		
Kentucky.....	11.7	12.1	Texas.....	37.2	25.4
Tennessee.....	BB	AA	West Region.....	124.6	127.1
Alabama.....	CC	CC	Mountain Division.....	2.3	(NA)
West South Central Division.....	70.8	38.8	Arizona.....	AA	(NA)
Arkansas.....	BB	(NA)	Pacific Division.....	122.3	GG
Louisiana.....	CC	AA	Washington.....	19.3	CC
Oklahoma.....	25.9	EE	Oregon.....	6.5	CC
			California.....	96.5	112.1

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>The product class structure for this industry is revised effective with 1972 and therefore comparable 1967 geographic data are not available. The effect of this change is to combine into a separate product class all packaging, packing, and bottling machinery for industrial food products.

<sup>2</sup>Data for 1967 include wrapping machines whereas the 1972 data for such machines are included in code 35514. The effect of this change is estimated to be less than 2 percent.

<sup>3</sup>The product class structure for this industry is revised effective with 1972 and, therefore, comparable 1967 geographic data are not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3551	Food products machinery.....	867.2	794.6	822.8	791.5	724.8	689.9	517.3	399.8
35511	Dairy and milk products plant machinery and equipment.....	57.4	754.1	781.1	736.2	<sup>1</sup> (663.8)	615.3	489.7	376.4
35512	Commercial food products machinery.....	185.0							
35513	Other industrial food products machinery, parts, and attachments.....	296.2							
35514	Packing, packaging, and bottling machinery for food products	232.1							
35510	Food products, machinery, n.s.k.....	96.5	40.5	(41.7)	55.3	61.0	74.7	27.6	23.5
3552	Textile machinery.....	738.1	672.0	711.9	728.1	660.7	652.6	499.1	322.2
35521	Textile machinery.....	373.8	403.6	436.0	400.4	358.8	348.8	252.6	143.7
35522	Parts and attachments for textile machinery.....	305.7	261.0	271.0	304.4	276.6	267.4	232.1	168.7
35520	Textile machinery, n.s.k.....	58.6	7.4	(4.9)	23.3	(25.3)	36.4	14.4	9.8
3553	Woodworking machinery.....	441.6	349.7	340.6	363.2	305.2	274.4	220.8	174.5
35531	Woodworking machinery, except home workshop, including parts and attachments.....	372.5	295.1	277.8	303.6	250.6	231.2	186.0	145.1
35532	Home-shop woodworking machinery, except power handtools....	51.5	(42.2)	(43.1)	39.0	(35.9)	29.1	29.0	25.7
35530	Woodworking machinery, n.s.k.....	17.6	(12.4)	(19.7)	20.6	(18.7)	14.1	5.8	3.7
35540	Paper industries machinery, parts, and attachments.....	381.4	450.7	455.0	504.5	501.1	515.1	347.5	280.1
3555	Printing trades machinery.....	736.6	575.6	656.6	701.4	700.9	656.0	403.2	273.3
35551	Printing presses, lithographic.....	156.0	243.0	262.8	285.4	283.4	263.6	137.6	94.2
35552	Printing presses, other than lithographic.....	90.2							
35553	Typesetting machinery and equipment.....	104.1							
35554	Bindery equipment.....	33.5							
35555	Other printing trade machinery, equipment, and parts.....	303.5	316.0	369.2	386.0	388.0	354.3	243.8	155.7
35550	Printing trades machinery, n.s.k.....	49.3							
			(16.6)	(24.6)	30.0	(29.5)	38.1	21.8	23.9
3559	Special industry machinery, n.e.c.....	2,367.1	1,980.6	2,023.7	1,959.8	1,792.0	1,670.3	988.4	726.2
35591	Chemical manufacturing industries machinery, equipment, and parts.....	212.5	244.6	231.9	245.4	238.1	284.5	152.4	118.5
35592	Foundry machinery and equipment, except patterns and molds..	132.3	137.4	156.3	153.4	140.1	143.9	89.6	52.6
35593	Plastics-working machinery and equipment, except patterns...	434.1	294.4	349.4	355.4	272.2	247.6	137.1	50.8
35594	Rubber-working machinery and equipment, except tire molds...	137.3	159.1	171.3	141.6	120.0	116.6	76.8	53.9
35595	Other special industrial machinery and equipment.....	1,281.4	1,074.6	1,040.9	986.8	941.3	778.6	500.2	414.7
35590	Special industry machinery, n.e.c., n.s.k.....	169.5	70.5	(73.9)	77.2	(80.3)	99.0	32.3	35.7

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Meteriel	Unit of meesure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollers)
INDUSTRY 3551.--FOOD PRODUCTS MACHINERY						
	Materials, parts, containers, and supplies, total.....		(X)	319.6	(X)	272.1
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	26.7	7.9	33.4	7.6
331012	Sheet and strip.....	...do.....	33.8	7.7	35.7	6.4
331013	Plates.....	...do.....	23.4	5.2	28.6	5.6
331015	Structural shapes.....	...do.....	13.1	3.3	16.2	2.9
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	2.5	8.2	2.5
331020	Alloy steel (except stainless).....	...do.....	4.2	2.4	5.7	2.7
	Stainless steel:					
331033	Sheet and strip.....	...do.....	13.9	17.7	13.5	17.4
331050	All other stainless steel mill shapes and forms.....	...do.....	9.3	14.1		
335105	Copper and copper-base alloy mill shapes and forms.....	Million lb....	1.1	1.0	1.6	1.1
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	2.0	1.5	1.6	1.2
335008	All other aluminum mill shapes and forms (extruded shapes, wire, rod, bar, powder, tubing, etc.).....	...do.....	2.0	1.4	.9	.8
	Casting (rough and semifinished) <sup>1</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	(NA)	9.0	20.1	10.7
332045	Steel.....	...do.....	(NA)	5.9	4.3	3.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.8	3.6	3.0	3.6
336200	Copper and copper-base alloy.....	...do.....	1.4	1.9	2.0	1.9
	Electrical motors and generators: <sup>1</sup>					
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	1,000 units...	84.8	4.0	127.9	5.0
362120	Integral horsepower motors and generators (1 hp. and over)....	...do.....	50.4	7.2	53.2	7.1
	Bearings:					
356218	Ball.....	.....	(X)	2.4	(X)	3.2
356201	Roller.....	.....	(X)	1.8	(X)	1.6
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	148.9	(X)	141.7
976000	Materials, etc., n.s.k. <sup>2</sup> .....	.....	(X)	70.2	(X)	45.5
INDUSTRY 3552.--TEXTILE MACHINERY						
	Materials, parts, containers, and supplies, total.....		(X)	289.2	(X)	277.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	37.6	13.7	49.4	13.5
331012	Sheet and strip.....	...do.....	17.6	5.8	28.3	7.4
331015	Structural shapes.....	...do.....	13.5	3.5	10.3	2.1
331017	Wire and wire products.....	...do.....	4.8	5.8	7.0	5.9
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	2.4	4.1	1.4
331020	Alloy steel (except stainless).....	...do.....	3.2	2.1	4.4	2.3
331031	Stainless steel.....	...do.....	6.4	10.8	4.8	7.3
335105	Copper and copper-base alloy mill shapes and forms.....	Million lb....	(NA)	1.4	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	6.8	2.4	2.3	1.7
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....	...do.....	6.6	4.0	(NA)	2.9
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	6.3	3.3	1.3	.9
	Primary metal and scrap:					
331051	Pig iron excluding silvery iron.....	1,000 s. tons.	7.2	.5	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	...do.....	17.4	.8	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....	50.9	22.4	55.0	20.9
336100	Aluminum and aluminum-base alloy.....	Million lb....	15.1	8.2	(D)	(D)
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>1</sup> .....	1,000 units...	37.0	8.0	(NA)	7.0
	Bearings:					
356218	Ball.....	.....	(X)	4.4	(X)	5.8
356201	Roller.....	.....	(X)	1.7	(X)	1.3
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	154.1	(X)	<sup>3</sup> 154.6
972000	Materials, etc., n.s.k. <sup>2</sup> .....	.....	(X)	33.9	(X)	42.9

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3553.--WOODWORKING MACHINERY					
	Materials, parts, containers, and supplies, total.....		(X)	185.7	(X)	108.2
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	25.0	7.7	29.7	8.7
331012	Sheet and strip.....	..do.....	17.0	3.9		
331013	Plates.....	..do.....	9.8	4.4		
331019	All other carbon steel mill shapes and forms.....	..do.....	5.3	1.7		
331020	Alloy steel (except stainless).....	..do.....	3.0	1.1	(NA)	(NA)
	Stainless steel:					
331033	Sheet and strip.....	..do.....	(NA)	.5		
331050	All other stainless steel mill shapes and forms.....	..do.....	(NA)	.5		
335001	Aluminum and aluminum-base alloy.....	Million lb....	(NA)		(NA)	(NA)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	25.8	11.3	20.0	7.2
332045	Steel.....	..do.....	2.3	2.1	(NA)	2.8
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.7	7.0	(NA)	4.1
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	2.0	2.2	(D)	(D)
362120	Integral horsepower motors and generators (1 hp. and over) <sup>1</sup> .....	1,000 units...	198.4	8.6	145.4	5.7
	Bearings:					
356218	Ball.....		(X)	2.8	(X)	2.6
356201	Roller.....		(X)	2.5		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	116.3	(X)	<sup>3</sup> 49.0
972000	Materials, etc., n.s.k. <sup>2</sup> .....		(X)	13.1	(X)	28.1
	INDUSTRY 3554.--PAPER INDUSTRIES MACHINERY					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 162.9	(X)	223.1
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	5.9	22.8	6.0
331013	Plates.....	..do.....	13.2	3.2	41.3	7.2
331019	All other carbon steel mill shapes and forms.....	..do.....	13.1	4.9	10.5	2.9
331020	Alloy steel (except stainless).....	..do.....	1.5	1.5	3.4	1.5
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.9	1.7	4.4	10.1
331050	All other stainless steel mill shapes and forms.....	..do.....	1.2	2.9		
335102	Copper and copper-base alloy:					
	Rod, bar, and mechanical wire including extruded and/or drawn shapes.....	Million lb....	.8	.8	(NA)	9.1
335143	Plate, sheet, and strip (including military cups and discs)...	..do.....		.3		
335152	Pipe and tube.....	..do.....	.4			
	Primary metals and scrap:					
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	(D)	(D)	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	..do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	..do.....	8.5	5.0	29.4	11.6
332045	Steel.....	..do.....	2.1	2.1	4.5	3.8
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>1</sup> .....	1,000 units...	(NA)	4.3	20.6	13.4
	Bearings:					
356218	Ball.....		(X)	1.8	(X)	5.4
356201	Roller.....		(X)	2.3	(X)	1.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	77.6	(X)	<sup>3</sup> 120.4
972000	Materials, etc., n.s.k. <sup>2</sup> .....		(X)	49.4	(X)	29.9

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967				
			Quantity	Delivered cost	Quantity	Delivered cost			
				(million dollars)		(million dollars)			
	INDUSTRY 3555.--PRINTING TRADES MACHINERY								
	Materials, parts, containers, and supplies, total.....	.....	(X)	218.7	(X)	234.2			
	Mill shapes and forms, except castings:								
	Carbon steel:								
331011	Bars and bar shapes.....	1,000 s. tons.	14.2	5.5	23.2	7.4			
331012	Sheet and strip.....	...do.....	(NA)	1.1	3.8	1.0			
331013	Plates.....	...do.....	4.0	1.4	4.6	1.7			
331019	All other carbon steel mill shapes and forms.....	...do.....	4.5	2.3	44.2	41.4			
	Alloy steel, except stainless:								
331021	Bars and bar shapes.....	...do.....	2.1	1.3	(NA)	1.4			
331029	All other alloy steel mill shapes and forms.....	...do.....	(NA)	.6					
	Stainless steel:								
331033	Sheet and strip.....	...do.....	.6	.7	.5	.6			
331050	All other stainless steel mill shapes and forms.....	...do.....	.6	.9					
	Copper and copper-base alloy:								
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.7	.4	(D)	(D)			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(NA)	13.3	{	(NA)	1.6		
335143	Plate, sheet, and strip, including military cups and discs...	...do.....						(D)	(D)
335152	Pipe and tube.....	...do.....							
	Aluminum and aluminum-base alloy:								
335301	Sheet, plate, and foil.....	...do.....	5.0	2.5	{	5.7	3.6		
335008	All other aluminum mill shapes and forms.....	...do.....	2.1	1.5					
	Castings (rough and semifinished): <sup>1</sup>								
332011	Iron (gray and malleable).....	1,000 s. tons.	34.0	20.9	66.6	28.8			
336100	Aluminum and aluminum-base alloy.....	Million lb....	3.9	2.9	2.6	2.9			
	Electrical motors and generators: <sup>1</sup>								
362115	Fractional horsepower electric motors (under 1 hp.) excluding timing motors.....	1,000 units...	(NA)	3.6	61.6	2.5			
362120	Integral horsepower motors and generators (1 hp. and over)....	...do.....	5.4	4.4	13.1	6.6			
	Bearings:								
356218	Ball.....	.....	(X)	4.1	{	(X)	5.0		
356201	Roller.....	.....	(X)	1.4					
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	100.7	(X)		<sup>3</sup> 116.6		
973000	Materials, containers, supplies, n.s.k. <sup>2</sup> .....	.....	(X)	49.2	(X)		53.1		
	INDUSTRY 3559.--SPECIAL INDUSTRY MACHINERY, N.E.C.								
	Materials, parts, containers, and supplies, total.....	.....	(X)	903.3	(X)		670.4		
	Mill shapes and forms, except castings:								
	Carbon steel:								
331011	Bars and bar shapes.....	1,000 s. tons.	72.6	20.1	69.2	15.6			
331012	Sheet and strip.....	...do.....	63.7	14.1	44.1	7.8			
331013	Plates.....	...do.....	146.8	32.1	120.0	21.1			
331015	Structural shapes.....	...do.....	43.7	10.5	38.5	6.9			
331017	Wire and wire products.....	...do.....	3.9	2.0	(NA)	2.5			
331019	All other carbon steel mill shapes and forms.....	...do.....	27.0	7.3	421.9	45.7			
	Alloy steel, except stainless:								
331021	Bars and bar shapes.....	...do.....	13.1	6.8	12.0	6.4			
331029	All other alloy steel mill shapes and forms.....	...do.....	12.5	6.2	(NA)	5.8			
	Stainless steel:								
331033	Sheet and strip.....	...do.....	9.0	14.7	21.5	29.3			
331050	All other stainless steel mill shapes and forms.....	...do.....	6.2	12.2					
	Copper and copper-base alloy:								
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	2.1	1.9	2.8	2.6			
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	3.6	2.7	(NA)	3.0			
335152	Pipe and tube.....	...do.....	2.6	3.2	(D)	(D)			
	Aluminum and aluminum-base alloy:								
335301	Sheet, plate, and foil.....	...do.....	5.6	3.3	3.4	2.3			
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	...do.....	3.2	1.8	1.1	.8			
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	2.7	1.6	1.7	1.3			

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3559.--SPECIAL INDUSTRY MACHINERY, N.E.C.--Continued					
	Materials, parts, containers, and supplies--Continued					
	Primary metals and scrap:					
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	11.7	.9	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	...do.....	53.0	2.0	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....	48.0	30.7	44.4	21.3
332045	Steel.....	...do.....	37.6	26.6	36.6	23.9
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.8	5.2	(NA)	5.3
336200	Copper and copper-base alloy.....	...do.....	2.3	3.0	3.8	4.1
	Electrical motors and generators: <sup>1</sup>					
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	1,000 units...	(NA)	4.9	(NA)	9.6
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	95.0	20.2	95.8	21.9
	Bearings:					
356218	Ball.....	.....	(X)	5.9	(X)	3.9
356201	Roller.....	.....	(X)	5.8	(X)	3.6
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	519.6	(X)	<sup>3</sup> 331.3
976000	Materials, etc., n.s.k. <sup>2</sup> .....	.....	(X)	138.0	(X)	134.4

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. <sup>r</sup>Revised.<sup>1</sup>Excludes quantities produced and consumed in the same establishment.<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>3</sup>Includes cost for materials indicated by the symbol (D).<sup>4</sup>These figures are understated by \$5 million or less because of apparent undercoverage of carbon steel pipe and tube.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3551.--FOOD PRODUCTS MACHINERY					
	Purchased fuels and electric energy.....		(X)	6.3	(X)	(NA)
	Purchased fuels, total.....		(X)	2.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	6.5	.1	(NA)	(NA)
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	88.2	.4	(NA)	(NA)
291141	Distillate.....	...do.....	55.7	.3	(NA)	(NA)
291151	Residual.....	...do.....	32.5	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.5	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	272.4	4.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.5	-	(NA)	(NA)
	INDUSTRY 3552.--TEXTILE MACHINERY					
	Purchased fuels and electric energy.....		(X)	8.5	(X)	6.5
	Purchased fuels, total.....		(X)	3.6	(X)	2.6
121005	Coal.....	1,000 s. tons....	.5	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.2	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	400.9	1.7	(NA)	(NA)
291141	Distillate.....	...do.....	273.4	1.1	(NA)	(NA)
291151	Residual.....	...do.....	127.5	.6	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.4	.9	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	355.0	4.9	293.8	3.9
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.9	-	1.7	-
	INDUSTRY 3553.--WOODWORKING MACHINERY					
	Purchased fuels and electric energy.....		(X)	2.8	(X)	(NA)
	Purchased fuels, total.....		(X)	.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1.0	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	33.4	.1	(NA)	(NA)
291141	Distillate.....	...do.....	21.5	.1	(NA)	(NA)
291151	Residual.....	...do.....	12.0	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.9	.5	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	167.4	1.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.7	-	(NA)	(NA)
	INDUSTRY 3554.--PAPER INDUSTRIES MACHINERY					
	Purchased fuels and electric energy.....		(X)	4.9	(X)	(NA)
	Purchased fuels, total.....		(X)	1.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.3	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	84.1	.4	(NA)	(NA)
291141	Distillate.....	...do.....	52.0	.3	(NA)	(NA)
291151	Residual.....	...do.....	32.1	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.4	.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	186.5	3.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.1	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3555.--PRINTING TRADES MACHINERY					
	Purchased fuels and electric energy.....		(X)	5.4	(X)	(NA)
	Purchased fuels, total.....		(X)	1.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	10.3	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	113.5	.5	(NA)	(NA)
291141	Distillate.....	...do.....	44.6	.2	(NA)	(NA)
291151	Residual.....	...do.....	68.9	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.9	.5	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	222.8	3.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	-	(NA)	(NA)
	INDUSTRY 3559.--SPECIAL INDUSTRY MACHINERY, N.E.C.					
	Purchased fuels and electric energy.....		(X)	16.5	(X)	13.1
	Purchased fuels, total.....		(X)	5.5	(X)	4.7
121005	Coal.....	1,000 s. tons....	7.3	.1	12.3	.1
331212	Coke.....	...do.....	(S)	.1	6.5	.2
	Fuel oil, total.....	1,000 bbl (42 gal)	315.1	1.4	382.7	1.2
291141	Distillate.....	...do.....	156.9	.8	159.6	.6
291151	Residual.....	...do.....	158.2	.7	223.1	.6
131300	Natural gas.....	Billion ft <sup>3</sup> .....	4.1	2.3	1.6	1.7
960011	Other fuels.....		(X)	.3	(X)	.1
975000	Fuels, n.s.k.....		(X)	1.3	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	688.4	11.0	571.1	8.4
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(D)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.3	-	2.6	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.

TABLE 8. Establishments and Production Workers for Selected Operations: 1972

(To be published in a separate report titled "Selected Metalworking Operations")





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# General Industrial Machinery and Equipment

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# EXPLANATORY TEXT

## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3561—Pumps and Pumping Equipment
- 3562—Ball and Roller Bearings
- 3563—Air and Gas Compressors
- 3564—Blowers and Exhaust and Ventilation Fans\*
- 3565—Industrial Patterns
- 3566—Speed Changers, Industrial High Speed Drives, and Gears\*
- 3567—Industrial Process Furnaces and Ovens\*
- 3568—Mechanical Power Transmission Equipment, N.E.C.\*
- 3569—General Industrial Machinery and Equipment, N.E.C.\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3561.—PUMPS AND PUMPING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use. Establishments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service-

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\*Note that the "short title" for this industry is used throughout the report.

station use are classified in industry 3586, Measuring and Dispensing Pumps, and industry 3563, Air and Gas Compressors. For a detailed list of products of industry 3561, refer to table 6A, product codes 35611 01 to 35616 13.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been changed from the previous classification system. Data for compressors have been moved to new industry 3563, Air and Gas Compressors. (See table 1C for a comparison of the old and new industries.)

Value of shipments and other receipts of the Pumps and Pumping Equipment Industry in 1972 totaled \$1,917 million. This included shipments of pumps and pumping equipment (primary products) valued at \$1,408 million, shipments of other products (secondary products) valued at \$296 million, and miscellaneous receipts (mainly resales) of \$213 million.

Shipments of pumps and pumping equipment (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent.

Shipments of pumps and pumping equipment (primary products) from establishments classified in industry 3561 in 1972 represented 86 percent (coverage ratio) of these products valued at \$1,633 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping pumps and pumping equipment consisted mainly of industry 3494, Valves and Pipe Fittings, (\$26 million); industry 3533, Oil Field Machinery, (\$24 million); and industry 3621, Motors and Generators, (\$28 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3561, these establishments accounted for 5 percent of value of shipments.

### INDUSTRY 3562.—BALL AND ROLLER BEARINGS

This industry comprises establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, takeup cartridge, and hanger units) and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry



3568. For a detailed list of products of industry 3562, refer to table 6A, product codes 35621 01 to 35629 41.

The code number and content for this industry in the 1972 revision of the SIC are unchanged.

Value of shipments and other receipts of the Ball and Roller Bearings Industry in 1972 totaled \$1,530 million. This included shipments of ball and roller bearings (primary products) valued at \$1,399 million, shipments of other products (secondary products) valued at \$87 million, and miscellaneous receipts (mainly resales) of \$45 million.

Shipments of ball and roller bearings (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent. Secondary products shipped by this industry in 1972 consisted mainly of power transmission equipment, n.e.c., (\$36 million).

Shipments of ball and roller bearings (primary products) from establishments classified in industry 3562 in 1972 represented 99 percent (coverage ratio) of these products valued at \$1,419 million shipped by all industries. In 1967, the coverage ratio was 97 percent. Other industries shipping ball and roller bearings consisted mainly of industry 3568, Power Transmission Equipment, N.E.C., (\$11 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3562, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3563.—AIR AND GAS COMPRESSORS**

This industry comprises establishments primarily engaged in manufacturing air and gas compressors for general industrial use. Establishments primarily engaged in manufacturing refrigeration compressors and compressing units are classified in industry 3585, Refrigeration and Heating Equipment. For a detailed list of products of industry 3563, refer to table 6A, product codes 35631 10 to 35635 51.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, constitute a new industry. Compressors were formerly included in industry 3561, Pumps and Compressors. (See table 1C for a comparison of the old and new industries.)

Value of shipments and other receipts of the Air and Gas Compressors Industry in 1972 totaled \$858 million. This

included shipments of air and gas compressors (primary products) valued at \$650 million, shipments of other products (secondary products) valued at \$135 million, and miscellaneous receipts (mainly resales) of \$74 million.

Shipments of air and gas compressors (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of internal combustion engines at \$70 million.

Shipments of air and gas compressors (primary products) from establishments classified in industry 3563 in 1972 represented 90 percent (coverage ratio) of these products valued at \$723 million shipped by all industries. Other industries shipping air and gas compressors consisted mainly of industry 3561, Pumps and Pumping Equipment, (\$32 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3563, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3564.—BLOWERS AND FANS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans. Establishments primarily engaged in manufacturing air-conditioning units are classified in industry 3585 (Refrigeration and Heating Equipment), and free-air circulating fans for use on desks, pedestals, or wall brackets, as well as household window-type fans and rollabouts, and kitchen and household ventilating and exhaust fans are classified in industry 3634 (Electric Housewares and Fans). For a detailed list of products of industry 3564, refer to table 6A, product codes 35643 17 to 35646 69.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Blowers and Fans Industry in 1972 totaled \$805 million. This included shipments of blowers and fans (primary products) valued at \$571 million, shipments of other products (secondary products) valued at \$152 million, and miscellaneous receipts (mainly resales) of \$82 million.

Shipments of blowers and fans (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's

total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of blowers and fans (primary products) from establishments classified in industry 3564 in 1972 represented 84 percent (coverage ratio) of these products valued at \$682 million shipped by all industries. In 1967, the coverage ratio was 82 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3564, these establishments accounted for 6 percent of value of shipments.

#### **INDUSTRY 3565.—INDUSTRIAL PATTERNS**

This industry comprises establishments primarily engaged in manufacturing industrial patterns. For a detailed list of products of industry 3565, refer to table 6A, product codes 35650 11 and 35650 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Industrial Patterns Industry in 1972 totaled \$198.0 million. This included shipments of industrial patterns (primary products) valued at \$184 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts (mainly resales) of \$4 million.

Shipments of industrial patterns (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent.

Shipments of industrial patterns (primary products) from establishments classified in industry 3565 in 1972 represented 78 percent (coverage ratio) of these products valued at \$234 million shipped by all industries. In 1967, the coverage ratio was 80 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3565, these establishments accounted for 21 percent of value of shipments.

#### **INDUSTRY 3566.—SPEED CHANGERS, DRIVES, AND GEARS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing speed changers, industrial high-speed drives, and gears. Establishments primarily engaged in manufacturing these items for motor vehicles are classified in industry 3714 (Motor Vehicle Parts and Accessories). For a detailed list of products of industry 3566, refer to table 6A, product codes 356660 11 to 356660 51.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been changed from the previous classification system. Data for plain bearings and other mechanical power transmission equipment, except speed changers, drives, and gears, have been moved to new industry 3568, Power Transmission Equipment, N.E.C. (See table 1C for a comparison of the old and new industries.)

Value of shipments and other receipts of the Speed Changers, Drives, and Gears Industry in 1972 totaled \$633 million. This included shipments of speed changers, drives, and gears (primary products) valued at \$526 million, shipments of other products (secondary products) valued at \$72 million, and miscellaneous receipts (mainly resales) of \$35 million.

Shipments of speed changers, drives, and gears (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of power transmission equipment at \$44 million.

Shipments of speed changers, drives, and gears (primary products) from establishments classified in industry 3566 in 1972 represented 89 percent (coverage ratio) of these products valued at \$593 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3566, these establishments accounted for 5 percent of value of shipments.

#### **INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices. For a detailed list of products of industry 3567, refer to table 6A, product codes 35671 11 to 35673 91.



The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Industrial Furnaces and Ovens Industry in 1972 totaled \$443 million. This included shipments of industrial furnaces and ovens (primary products) valued at \$312 million, shipments of other products (secondary products) valued at \$85 million, and miscellaneous receipts (mainly resales) of \$46 million.

Shipments of industrial furnaces and ovens (primary products) in 1972 represented 78 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of special industry machinery, n.e.c., at \$11 million.

Shipments of industrial furnaces and ovens (primary products) from establishments classified in industry 3567 in 1972 represented 91 percent (coverage ratio) of these products valued at \$341 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping industrial furnaces and ovens consisted mainly of industry 3559, Special Industry Machinery, N.E.C., (\$8 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3567, these establishments accounted for 4 percent of value of shipments.

#### **INDUSTRY 3568.—POWER TRANSMISSION EQUIPMENT, N.E.C. (Short Title)**

This industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment and parts for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in industry 3714 (Motor Vehicle Parts and Accessories); aircraft power transmission equipment in industry 3728 (Aircraft Equipment, N.E.C.); ball and roller bearings in industry 3562; and speed changers, industrial high-speed drives, and gears in industry 3566. For a detailed list of products of industry 3568, refer to table 6A, product codes 35681 15 to 35683 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual constitutes a new industry. Plain bearings and other mechanical power-transmission equipment, except speed changers, drives, and gears, were formerly included in industry 3566, Speed Changers, Drives, and Gears. (See table 1C for a comparison of the old and new industries.)

Value of shipments and other receipts of the Power Transmission Equipment, N.E.C., Industry in 1972 totaled \$876 million. This included shipments of power transmission equipment, n.e.c., (primary products) valued at \$719 million, shipments of other products (secondary products) valued at \$107 million, and miscellaneous receipts (mainly resales) of \$51 million.

Shipments of power transmission equipment, n.e.c., (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of motor vehicle parts and accessories at \$38 million.

Shipments of power transmission equipment, n.e.c., (primary products) from establishments classified in industry 3568 in 1972 represented 74 percent (coverage ratio) of these products valued at \$975 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3568, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3569.—GENERAL INDUSTRIAL MACHINERY, N.E.C. (Short Title)**

This industry comprises establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Establishments primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599 (Machinery, Except Electrical, N.E.C.). For a detailed list of products of industry 3569, refer to table 6A, product codes 35691 12 to 35699 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the General Industrial Machinery, N.E.C., Industry in 1972 totaled \$1,169 million. This included shipments of general industrial machinery, n.e.c., (primary products) valued at \$923 million, shipments of other products (secondary products) valued at \$163 million, and miscellaneous receipts (mainly resales) of \$84 million.

Shipments of general industrial machinery, n.e.c., (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and



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## EXPLANATORY TEXT—Continued

secondary). The industry specialization ratio in 1967 was also 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of service industry machinery, n.e.c., (\$29 million).

Shipments of general industrial machinery, n.e.c., (primary products) from establishments classified in industry 3569 in 1972 represented 81 percent (coverage ratio) of these products valued at \$1,133 million shipped by all industries. In 1967, the coverage ratio was 79 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3569, these establishments accounted for 7 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3561.--PUMPS AND PUMPING EQUIPMENT (1972 SIC BASIS)															
1972 Census.....	559	257	55.5	532.9	35.5	71.6	302.2	1,095.7	852.7	1,917.3	56.8	(NA)	534.5	83	86
1967 INDUSTRY 3561.--PUMPS AND COMPRESSORS (1972 SIC INDUSTRIES 3561 AND 3563)															
1972 Census.....	643	324	78.4	759.5	49.0	98.8	419.7	1,562.9	1,249.7	2,775.4	72.1	(NA)	821.3	83	87
1971 ASM.....	(NA)	(NA)	75.4	689.0	45.7	91.0	370.7	1,352.4	1,168.9	2,532.4	66.0	1,655.1	761.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	81.5	709.0	50.5	102.6	395.8	1,445.8	1,170.4	2,569.6	70.1	1,624.0	765.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	79.2	654.8	50.1	103.0	372.2	1,381.7	1,119.6	2,439.9	86.3	1,549.2	697.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	76.3	596.6	47.7	98.0	333.0	1,222.6	1,023.5	2,232.6	70.4	1,420.1	613.4	(NA)	(NA)
1967 Census.....	660	299	78.3	591.7	49.8	104.6	335.3	1,210.2	1,031.9	2,207.5	62.3	1,294.2	587.5	87	88
1966 ASM.....	(NA)	(NA)	78.7	578.7	50.5	108.6	337.2	1,202.4	1,000.9	2,151.1	62.5	(NA)	562.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	74.0	517.3	47.4	99.6	297.4	1,059.2	879.5	1,873.9	45.1	(NA)	489.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	67.9	457.6	43.0	91.1	263.0	922.6	744.7	1,627.1	31.7	833.1	405.9	(NA)	(NA)
1963 Census.....	642	267	61.3	395.8	38.9	80.8	224.7	768.8	660.5	1,419.1	28.4	766.2	352.1	85	86
1962 ASM.....	(NA)	(NA)	61.6	383.3	38.2	78.6	214.4	681.4	602.0	1,296.7	24.7	710.3	297.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	59.4	353.6	37.0	75.6	196.2	636.0	569.4	1,229.7	18.5	(NA)	275.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	62.8	360.8	39.7	80.5	206.1	674.1	603.0	1,275.1	26.1	(NA)	285.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	59.4	330.5	38.1	76.4	188.6	624.0	580.7	1,207.6	23.9	(NA)	269.3	(NA)	(NA)
1958 Census.....	582	243	60.0	321.5	37.4	75.0	180.1	542.0	535.2	1,114.1	24.7	(NA)	267.0	87	85
INDUSTRY 3562.--BALL AND ROLLER BEARINGS															
1972 Census.....	135	94	51.0	525.5	41.4	83.4	403.7	931.3	610.4	1,530.5	51.3	(NA)	398.5	94	99
1971 ASM.....	(NA)	(NA)	48.1	444.2	38.4	74.4	333.2	776.9	495.6	1,279.4	86.7	981.5	351.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	56.0	482.0	45.1	87.6	360.5	808.2	520.3	1,316.3	54.9	928.3	361.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	58.8	509.6	47.9	99.3	390.8	851.7	577.0	1,408.9	69.3	907.1	355.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	58.8	461.2	47.3	96.0	347.6	844.9	511.4	1,341.3	75.3	876.9	335.2	(NA)	(NA)
1967 Census.....	124	97	58.8	456.0	47.5	100.9	343.5	833.3	510.8	1,328.5	107.1	825.1	318.0	97	97
1966 ASM.....	(NA)	(NA)	61.4	465.4	49.8	108.0	359.8	872.3	556.7	1,398.9	91.4	(NA)	305.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	57.4	419.9	46.5	99.7	320.6	792.3	501.1	1,270.9	64.9	(NA)	274.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	53.6	384.2	43.2	91.3	294.2	695.1	443.8	1,116.6	44.9	604.5	236.2	(NA)	(NA)
1963 Census.....	125	93	52.3	348.7	42.0	86.0	263.0	627.7	372.3	998.8	39.2	567.1	219.6	97	98
1962 ASM.....	(NA)	(NA)	53.4	348.0	42.5	85.0	249.6	623.5	345.4	962.7	32.9	537.3	213.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	50.3	306.4	39.6	76.8	215.4	530.4	291.6	824.1	32.3	(NA)	199.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	54.1	315.1	42.6	84.1	225.8	547.6	315.8	865.3	44.9	(NA)	201.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	53.7	325.3	43.4	91.6	243.2	599.8	358.7	920.0	35.5	(NA)	207.0	(NA)	(NA)
1958 Census.....	107	81	46.4	241.2	35.8	67.3	169.1	407.7	231.3	649.6	34.3	(NA)	156.9	98	98
INDUSTRY 3563.--AIR AND GAS COMPRESSORS															
1972 Census.....	84	67	22.9	226.6	13.5	27.2	117.5	467.2	397.0	858.1	15.3	(NA)	286.8	83	90
INDUSTRY 3564.--BLOWERS AND FANS															
1972 Census.....	396	172	23.4	216.2	16.0	32.0	126.5	468.8	343.2	805.2	22.3	(NA)	125.4	79	84
1971 ASM.....	(NA)	(NA)	22.3	191.2	14.9	30.3	109.0	392.1	300.5	697.9	15.9	204.6	114.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	22.6	185.2	15.4	32.0	107.5	371.9	293.2	665.3	17.4	194.5	116.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.1	188.6	16.8	34.8	114.8	368.1	285.6	640.4	15.1	171.1	115.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	21.3	159.0	14.4	30.4	93.8	292.2	222.6	513.0	14.1	151.2	86.7	(NA)	(NA)
1967 Census.....	287	129	21.0	149.2	14.9	31.5	93.2	302.2	222.6	525.2	14.5	139.7	84.7	85	82
1966 ASM.....	(NA)	(NA)	17.9	126.6	13.0	26.7	78.8	253.5	198.4	444.3	12.5	(NA)	76.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	17.0	115.0	11.8	24.6	68.9	223.1	180.6	400.5	8.4	(NA)	64.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	15.1	102.9	10.7	23.0	63.3	191.2	149.0	339.0	*8.7	104.6	54.3	(NA)	(NA)
1963 Census.....	237	97	15.2	94.1	10.7	21.6	57.8	180.8	135.7	315.3	7.0	98.3	53.3	83	79
1962 ASM.....	(NA)	(NA)	14.7	93.6	9.8	20.4	51.7	169.2	140.2	307.0	*7.7	91.7	53.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	14.4	88.9	9.6	19.5	49.7	155.1	131.6	286.2	5.2	(NA)	49.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	14.6	88.5	9.8	19.7	49.9	153.8	125.3	280.5	*6.0	(NA)	52.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	15.5	88.6	10.5	21.2	50.5	154.6	132.9	285.6	4.5	(NA)	56.1	(NA)	(NA)
1958 Census.....	207	104	15.9	82.5	11.0	21.4	50.3	145.0	121.6	271.6	5.6	(NA)	51.2	83	79

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3565.--INDUSTRIAL PATTERNS															
1972 Census.....	1,021	97	8.5	103.1	7.4	13.9	85.3	161.0	38.8	198.0	5.3	(NA)	12.9	95	78
1971 ASM.....	(NA)	(NA)	8.5	87.9	7.2	14.0	71.5	153.3	41.8	197.6	6.9	67.4	11.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	10.4	101.9	8.9	16.7	82.4	159.3	45.8	206.4	*4.4	68.1	16.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.5	112.2	9.3	16.9	94.2	167.3	40.0	206.0	*6.6	74.2	17.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.1	93.6	9.3	16.5	78.0	151.8	36.6	188.3	*15.0	71.6	11.9	(NA)	(NA)
1967 Census.....	1,163	141	10.9	106.0	9.5	19.4	86.7	165.5	37.0	201.8	8.1	101.3	12.7	96	80
1966 ASM.....	(NA)	(NA)	12.2	118.0	10.7	22.5	100.8	187.3	52.0	233.0	*11.7	(NA)	15.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.1	101.3	10.6	20.4	87.7	158.3	46.4	201.7	*7.4	(NA)	10.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	10.5	87.6	9.4	19.4	76.0	138.3	33.2	170.0	*7.4	32.3	9.0	(NA)	(NA)
1963 Census.....	1,209	106	9.9	75.6	8.7	17.7	64.9	112.6	29.2	140.7	3.8	28.9	8.4	96	80
1962 ASM.....	(NA)	(NA)	9.5	67.0	8.6	16.0	56.6	98.3	22.2	119.7	*1.0	27.2	6.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.9	59.1	8.1	14.5	49.1	85.5	21.5	106.4	*1.5	(NA)	5.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.1	63.8	8.4	15.4	53.7	93.0	22.3	116.5	(S)	(NA)	5.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.4	61.4	8.6	16.2	51.8	88.3	23.1	110.4	(S)	(NA)	6.3	(NA)	(NA)
1958 Census.....	1,174	96	8.9	54.7	7.7	13.9	45.4	78.1	20.7	98.3	3.2	(NA)	6.1	95	74
INDUSTRY 3566.--SPEED CHANGERS, DRIVES, AND GEARS (1972 SIC BASIS)															
1972 Census.....	346	155	22.4	224.2	15.6	30.6	137.5	408.9	231.3	632.7	21.8	(NA)	147.6	88	89
1967 INDUSTRY 3566.--POWER TRANSMISSION EQUIPMENT (1972 SIC INDUSTRIES 3566 AND 3568)															
1972 Census.....	501	282	50.1	490.7	36.4	72.6	320.5	953.3	571.6	1,509.1	42.2	(NA)	355.5	87	79
1971 ASM.....	(NA)	(NA)	47.6	436.0	33.6	66.5	274.2	808.9	499.0	1,324.4	36.7	(NA)	349.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	52.5	454.2	37.5	74.9	293.7	855.5	528.7	1,377.4	54.8	(NA)	348.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	55.8	457.1	41.2	85.3	301.6	884.6	554.6	1,411.8	52.2	(NA)	331.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	53.8	412.1	39.1	80.7	269.8	806.0	484.5	1,280.3	40.7	(NA)	303.7	(NA)	(NA)
1967 Census.....	513	303	54.8	409.4	40.6	83.4	273.6	800.7	483.9	1,263.4	57.3	(NA)	289.3	90	83
1966 ASM.....	(NA)	(NA)	55.4	417.1	41.5	89.8	287.1	829.2	515.7	1,314.1	53.2	(NA)	276.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	52.6	371.0	39.3	82.4	252.3	713.1	450.1	1,147.4	41.1	(NA)	240.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	48.3	334.9	36.3	76.5	229.3	622.4	393.7	998.2	31.7	(NA)	210.1	(NA)	(NA)
1963 Census.....	532	272	46.7	303.3	34.4	71.1	203.9	555.7	345.1	888.6	26.4	(NA)	190.6	84	79
1962 ASM.....	(NA)	(NA)	43.6	281.7	31.4	64.6	182.8	494.9	300.9	787.6	*32.0	(NA)	169.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	40.0	244.8	28.8	57.8	157.3	429.0	252.3	682.6	17.2	(NA)	146.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	41.8	249.8	30.3	61.4	161.8	431.1	257.0	691.9	23.0	(NA)	142.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	44.2	255.6	32.2	64.6	168.4	470.9	283.3	739.9	21.9	(NA)	153.7	(NA)	(NA)
1958 Census.....	470	236	41.8	226.1	29.8	57.5	143.8	384.4	230.8	630.3	26.8	(NA)	133.6	87	85
INDUSTRY 3567.--INDUSTRIAL FURNACES AND OVENS															
1972 Census.....	266	108	13.6	138.5	8.1	16.0	69.8	244.3	200.3	443.2	7.5	(NA)	75.7	78	91
1971 ASM.....	(NA)	(NA)	13.2	128.4	7.0	14.0	56.8	217.2	220.9	438.4	6.0	96.5	72.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.9	138.6	7.9	15.9	62.8	253.7	216.0	467.7	9.2	93.6	70.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	15.7	138.5	8.8	17.9	64.8	264.4	212.4	472.4	5.9	83.4	73.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.6	114.1	7.3	14.8	49.2	215.8	197.1	414.4	6.0	69.8	54.0	(NA)	(NA)
1967 Census.....	255	117	16.1	129.3	8.9	18.3	58.2	259.4	236.1	495.7	11.6	68.3	66.5	87	88
1966 ASM.....	(NA)	(NA)	14.3	112.2	8.0	17.7	52.4	212.9	199.1	401.0	5.4	(NA)	61.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.9	102.4	7.3	16.2	46.8	193.9	164.3	349.4	6.6	(NA)	51.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	12.3	93.0	6.9	15.2	41.5	169.7	158.3	324.0	4.0	61.9	44.9	(NA)	(NA)
1963 Census.....	238	93	12.1	83.7	6.8	14.0	38.7	143.0	137.7	279.1	4.6	58.2	41.1	83	85
1962 ASM.....	(NA)	(NA)	11.1	72.3	6.2	13.0	33.7	117.5	121.2	238.0	2.3	55.0	30.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	10.7	69.9	5.9	12.7	31.5	115.7	107.9	225.1	*2.7	(NA)	29.3	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.3	71.0	6.3	13.5	33.5	124.8	129.6	259.8	2.1	(NA)	30.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	11.0	65.1	6.4	13.3	31.6	114.6	113.0	222.5	(S)	(NA)	33.9	(NA)	(NA)
1958 Census.....	201	89	10.3	57.4	5.8	11.7	26.9	96.4	101.8	204.8	2.9	(NA)	30.3	85	83
INDUSTRY 3568.--POWER TRANSMISSION EQUIPMENT, N.E.C.															
1972 Census.....	155	127	27.7	266.5	20.8	42.0	183.0	544.4	340.3	876.4	20.4	(NA)	207.9	87	74

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3569.--GENERAL INDUSTRIAL MACHINERY, N.E.C.															
1972 Census.....	900	358	36.9	350.9	24.0	48.0	195.9	696.2	482.5	1,169.4	31.3	(NA)	253.8	85	81
1971 ASM.....	(NA)	(NA)	34.3	303.7	21.9	43.9	164.8	579.5	376.1	952.6	27.0	317.3	214.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	39.9	328.6	24.3	51.1	174.3	637.8	396.0	1,017.5	31.9	346.5	229.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	37.3	299.9	23.5	48.4	168.6	591.1	378.8	962.0	29.4	305.5	213.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	36.2	278.6	22.6	47.0	154.4	506.2	364.2	870.2	31.4	283.9	186.7	(NA)	(NA)
1967 Census.....	758	346	39.4	295.4	25.4	52.3	163.2	535.9	379.8	901.2	30.5	286.0	194.8	85	79
1966 ASM.....	(NA)	(NA)	41.0	308.3	25.5	52.9	156.6	638.8	420.5	1,024.1	34.5	(NA)	189.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	38.9	278.4	23.4	47.9	135.6	517.4	347.4	855.6	27.5	(NA)	153.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	36.7	264.2	20.6	43.5	117.9	436.9	284.2	708.6	19.4	253.3	143.3	(NA)	(NA)
1963 Census.....	777	277	35.6	240.8	20.3	40.9	109.4	424.1	272.7	691.3	15.1	238.2	123.4	83	70
1962 ASM.....	(NA)	(NA)	33.0	219.1	19.2	36.7	92.9	284.4	314.9	609.4	*20.4	225.6	94.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	30.6	200.6	17.2	33.9	86.2	256.9	297.4	572.2	20.1	(NA)	89.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	29.5	185.8	16.6	33.4	82.1	261.6	252.3	549.9	18.7	(NA)	94.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	28.9	175.6	16.9	33.2	80.5	306.9	207.6	496.2	20.2	(NA)	124.9	(NA)	(NA)
1958 Census.....	584	209	28.0	159.9	16.1	31.8	75.6	281.4	189.8	458.3	17.3	(NA)	104.0	87	74

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3561	1972 industry 3562	1972 industry 3563	1972 industry 3564	1972 industry 3565	1972 industry 3566	1972 industry 3567	1972 industry 3568	1972 industry 3569	1967 industry 3561
1972.....	506	99	55	360	1,017	330	253	125	864	(X)
1967.....	(X)	85	(X)	271	1,156	(X)	246	(X)	725	590
1963.....	(X)	93	(X)	225	1,206	(X)	229	(X)	568	589

(X) Not applicable. (NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3561.--PUMPS AND PUMPING EQUIPMENT											
1972 Census.....	9,601	(NA)	64	2,016	4.22	.44	.72	(NA)	19,742	49	15.30
1971 ASM.....	9,137	21,950	61	1,991	4.07	.46	.73	65	17,936	51	14.86
1970 ASM.....	8,699	19,926	62	2,031	3.86	.46	.73	63	17,739	49	14.09
1969 ASM.....	8,267	19,560	63	2,055	3.61	.46	.73	63	17,445	47	13.41
1968 ASM.....	7,819	18,612	63	2,054	3.40	.46	.73	64	16,023	49	12.48
1967 Census.....	7,561	16,529	64	2,100	3.20	.47	.74	59	15,461	49	11.57
1966 ASM.....	7,352	(NA)	64	2,150	3.11	.47	.74	(NA)	15,277	48	11.08
1965 ASM.....	6,993	(NA)	64	2,101	2.99	.47	.75	(NA)	14,317	49	10.63
1964 ASM.....	6,744	12,270	63	2,118	2.89	.46	.74	51	13,596	50	10.13
1963 Census.....	6,454	12,450	63	2,076	2.78	.47	.74	54	12,537	51	9.51
1962 ASM.....	6,222	11,531	62	2,060	2.73	.46	.76	55	11,060	56	8.66
1961 ASM.....	5,951	(NA)	62	2,043	2.60	.46	.75	(NA)	10,704	56	8.41
1960 ASM.....	5,745	(NA)	63	2,028	2.56	.47	.76	(NA)	10,733	54	8.37
1959 ASM.....	5,564	(NA)	64	2,003	2.47	.48	.75	(NA)	10,505	53	8.17
1958 Census.....	5,355	(NA)	62	2,004	2.40	.48	.77	(NA)	9,028	59	7.23

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual men-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per men-hour of production worker  (dollars)
INDUSTRY 3562.--BALL AND ROLLER BEARINGS											
1972 Census.....	10,324	(NA)	81	2,014	4.84	.40	.74	(NA)	18,296	56	11.16
1971 ASM.....	9,235	21,950	80	1,938	4.48	.39	.73	.65	16,152	57	10.44
1970 ASM.....	8,607	19,930	81	1,942	4.12	.40	.76	.63	14,432	60	9.23
1969 ASM.....	8,667	15,430	81	2,073	3.94	.41	.77	.64	14,484	60	8.58
1968 ASM.....	7,844	14,910	80	2,030	3.62	.38	.73	.65	14,369	55	8.80
1967 Census.....	7,748	14,030	81	2,125	3.40	.38	.73	.62	14,160	55	8.26
1966 ASM.....	7,574	(NA)	81	2,166	3.33	.40	.73	(NA)	14,196	53	8.08
1965 ASM.....	7,317	(NA)	81	2,141	3.22	.39	.72	(NA)	13,805	53	7.95
1964 ASM.....	7,171	11,280	81	2,115	3.22	.40	.74	.54	12,975	55	7.62
1963 Census.....	6,665	10,840	80	2,047	3.06	.37	.72	.57	11,998	56	7.30
1962 ASM.....	6,518	10,060	80	2,001	2.94	.36	.72	.56	11,677	56	7.34
1961 ASM.....	6,094	(NA)	79	1,940	2.81	.35	.73	(NA)	10,548	58	6.91
1960 ASM.....	5,823	(NA)	79	1,977	2.68	.36	.73	(NA)	10,120	58	6.51
1959 ASM.....	6,057	(NA)	81	2,111	2.66	.39	.74	(NA)	11,168	54	6.55
1958 Census.....	5,193	(NA)	77	1,883	2.51	.36	.73	(NA)	8,780	59	6.06
INDUSTRY 3563.--AIR AND GAS COMPRESSORS											
1972 Census.....	9,895	(NA)	59	2,014	4.32	.46	.73	(NA)	20,401	48	17.17
INDUSTRY 3564.--BLOWERS AND FANS											
1972 Census.....	9,239	(NA)	68	2,000	3.95	.42	.69	(NA)	20,034	46	14.15
1971 ASM.....	8,574	9,170	67	2,034	3.60	.43	.70	(NA)	17,583	49	12.94
1970 ASM.....	8,195	8,720	68	2,078	3.36	.44	.72	(NA)	16,456	50	11.62
1969 ASM.....	7,826	7,100	70	2,071	3.30	.45	.74	.27	15,274	51	10.58
1968 ASM.....	7,465	7,100	68	2,111	3.09	.43	.74	.29	13,718	54	9.61
1967 Census.....	7,107	6.65	71	2,116	2.96	.42	.71	.27	14,389	49	9.58
1966 ASM.....	7,078	(NA)	73	2,056	2.96	.45	.73	(NA)	14,170	50	9.51
1965 ASM.....	6,758	(NA)	69	2,083	2.80	.45	.74	(NA)	13,110	52	9.07
1964 ASM.....	6,832	6.93	71	2,137	2.75	.44	.74	.31	12,698	54	8.33
1963 Census.....	6,172	6.47	70	2,014	2.67	.43	.73	.31	11,860	52	8.36
1962 ASM.....	6,357	6.24	67	2,077	2.53	.46	.76	.30	11,496	55	8.29
1961 ASM.....	6,161	(NA)	67	2,022	2.55	.46	.77	(NA)	10,747	57	7.95
1960 ASM.....	6,064	(NA)	67	2,000	2.53	.45	.76	(NA)	10,537	58	7.81
1959 ASM.....	5,704	(NA)	68	2,021	2.38	.47	.78	(NA)	9,947	57	7.29
1958 Census.....	5,171	(NA)	69	1,945	2.36	.45	.75	(NA)	9,096	57	6.79
INDUSTRY 3565.--INDUSTRIAL PATTERNS											
1972 Census.....	12,214	(NA)	86	1,916	6.15	.20	.72	(NA)	19,047	64	11.59
1971 ASM.....	10,341	9,170	85	1,944	5.11	.21	.66	.29	10,950	57	10.95
1970 ASM.....	9,798	8,610	86	1,876	4.93	.22	.72	.29	9,539	64	9.54
1969 ASM.....	10,686	7,070	89	1,817	5.57	.19	.74	.36	15,933	67	9.90
1968 ASM.....	9,267	7,090	92	1,774	4.73	.19	.69	.38	15,030	62	9.20
1967 Census.....	9,767	9,290	87	2,051	4.46	.18	.71	.50	15,241	64	8.52
1966 ASM.....	9,695	(NA)	88	2,102	4.48	.22	.73	(NA)	15,388	63	8.33
1965 ASM.....	8,380	(NA)	88	1,928	4.29	.23	.73	(NA)	13,095	64	7.75
1964 ASM.....	8,353	3,080	90	2,066	3.91	.20	.71	.19	13,189	63	7.12
1963 Census.....	7,626	2,920	88	2,039	3.66	.21	.74	.21	11,356	67	6.36
1962 ASM.....	7,086	2,860	91	1,860	3.54	.19	.75	.23	10,391	68	6.16
1961 ASM.....	6,654	(NA)	91	1,785	3.40	.20	.76	(NA)	9,627	69	5.91
1960 ASM.....	6,974	(NA)	92	1,834	3.48	.19	.74	(NA)	10,170	69	6.04
1959 ASM.....	6,516	(NA)	91	1,886	3.20	.21	.77	(NA)	9,361	70	5.45
1958 Census.....	6,172	(NA)	87	1,816	3.25	.21	.77	(NA)	8,806	70	5.60
INDUSTRY 3566.--SPEED CHANGERS, DRIVES, AND GEARS											
1972 Census.....	10,008	(NA)	70	1,961	4.49	.37	.71	(NA)	18,254	55	13.36
1971 ASM.....	9,159	(NA)	71	1,979	4.12	.38	.71	(NA)	16,993	54	12.16
1970 ASM.....	8,651	(NA)	71	1,997	3.92	.38	.71	(NA)	16,295	53	11.42
1969 ASM.....	8,191	(NA)	74	2,070	3.54	.39	.72	(NA)	15,853	52	10.37
1968 ASM.....	7,659	(NA)	7	2,063	3.34	.38	.70	(NA)	14,981	51	9.99
1967 Census.....	7,477	(NA)	74	2,052	3.28	.38	.71	(NA)	14,624	51	9.61
1966 ASM.....	7,527	(NA)	75	2,161	3.20	.39	.71	(NA)	14,962	50	9.24
1965 ASM.....	7,058	(NA)	75	2,094	3.06	.39	.72	(NA)	13,568	52	8.66
1964 ASM.....	6,932	(NA)	75	2,107	3.00	.39	.73	(NA)	12,884	54	8.13
1963 Census.....	6,499	(NA)	74	2,067	2.87	.39	.73	(NA)	11,907	55	7.82
1962 ASM.....	6,456	(NA)	72	2,059	2.83	.38	.74	(NA)	11,341	57	7.66
1961 ASM.....	6,115	(NA)	72	2,008	2.72	.37	.73	(NA)	10,714	57	7.43
1960 ASM.....	5,971	(NA)	72	2,024	2.64	.37	.73	(NA)	10,306	58	7.02
1959 ASM.....	5,785	(NA)	73	2,002	2.61	.38	.73	(NA)	10,657	54	7.30
1958 Census.....	5,411	(NA)	71	1,933	2.50	.37	.72	(NA)	9,199	59	6.68

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3567.--INDUSTRIAL FURNACES AND OVENS											
1972 Census.....	10,313	(NA)	60	1,962	4.45	.43	.73	(NA)	18,649	55	15.72
1971 ASM.....	9,727	7,310	53	2,000	4.06	.50	.80	.22	16,455	59	15.51
1970 ASM.....	9,302	6,280	53	2,013	3.95	.46	.76	.20	17,027	55	15.96
1969 ASM.....	8,822	5,310	56	2,034	3.62	.45	.74	.18	16,841	52	14.77
1968 ASM.....	8,390	5,130	54	2,027	3.32	.48	.75	.17	15,868	53	14.58
1967 Census.....	8,030	4,240	55	2,057	3.18	.48	.74	.14	16,110	50	14.15
1966 ASM.....	7,861	(NA)	56	2,203	2.96	.50	.78	(NA)	14,913	53	12.03
1965 ASM.....	7,951	(NA)	57	2,220	2.89	.47	.76	(NA)	15,053	53	11.98
1964 ASM.....	7,587	5,030	56	2,207	2.73	.49	.78	.19	13,847	55	11.15
1963 Census.....	6,910	4,810	56	2,059	2.77	.49	.79	.21	11,801	59	10.24
1962 ASM.....	6,527	4,950	56	2,110	2.59	.51	.81	.23	10,607	62	9.03
1961 ASM.....	6,518	(NA)	55	2,152	2.48	.48	.79	(NA)	10,789	60	9.12
1960 ASM.....	6,296	(NA)	56	2,121	2.48	.50	.77	(NA)	11,065	57	9.27
1959 ASM.....	5,943	(NA)	58	2,080	2.38	.51	.80	(NA)	10,460	57	8.62
1958 Census.....	5,579	(NA)	56	2,021	2.30	.50	.78	(NA)	9,375	60	8.26
INDUSTRY 3568.--POWER TRANSMISSION EQUIPMENT, N.E.C.											
1972 Census.....	9,620	(NA)	74	2,019	4.36	.39	.98	(NA)	19,653	49	12.96
INDUSTRY 3569.--GENERAL INDUSTRIAL MACHINERY, N.E.C.											
1972 Census.....	9,509	(NA)	65	2,000	4.08	.41	.71	(NA)	18,867	50	14.50
1971 ASM.....	8,854	9,250	64	2,005	3.75	.40	.71	.33	16,895	52	13.20
1970 ASM.....	8,236	8,680	61	2,103	3.41	.39	.71	.34	15,985	52	12.48
1969 ASM.....	8,040	8,190	63	2,060	3.48	.39	.71	.32	15,847	51	12.21
1968 ASM.....	7,696	7,840	62	2,080	3.29	.42	.74	.33	13,983	55	10.77
1967 Census.....	7,504	7,260	65	2,058	3.12	.42	.75	.32	13,615	55	10.24
1966 ASM.....	7,513	(NA)	62	2,073	2.96	.41	.71	(NA)	15,565	48	12.08
1965 ASM.....	7,160	(NA)	60	2,042	2.83	.41	.73	(NA)	13,304	54	10.81
1964 ASM.....	7,195	6,900	56	2,113	2.71	.40	.77	.36	11,898	60	10.04
1963 Census.....	6,772	6,690	57	2,010	2.68	.39	.74	.34	11,926	57	10.38
1962 ASM.....	6,633	6,840	58	1,916	2.53	.52	.88	.37	8,610	77	7.75
1961 ASM.....	6,546	(NA)	56	1,965	2.54	.52	.87	(NA)	8,381	78	7.58
1960 ASM.....	6,304	(NA)	56	2,011	2.46	.46	.80	(NA)	8,876	71	7.84
1959 ASM.....	6,075	(NA)	58	1,969	2.42	.77	.77	(NA)	10,618	57	9.23
1958 Census.....	5,708	(NA)	57	1,978	2.38	.41	.76	(NA)	10,046	57	8.85

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3561.--Pumps and Pumping Equipment.....	559	257	55.5	1,095.7	1,917.3	(X)	(X)	(X)	(X)	(X)
Old industry 3561.--Pumps and Compressors.....	559	257	55.5	1,095.7	1,917.3	643	324	78.4	1,562.9	2,775.4
New industry 3563.--Air and Gas Compressors.....	84	67	22.9	467.2	858.1	(X)	(X)	(X)	(X)	(X)
Old industry 3561.--Pumps and Compressors.....	84	67	22.9	467.2	858.1	643	324	78.4	1,562.9	2,775.4
New industry 3566.--Speed Changers, Drives, and Gears.....	346	155	22.4	408.9	632.7	(X)	(X)	(X)	(X)	(X)
Old industry 3566.--Power Transmission Equipment.....	346	155	22.4	408.9	632.7	501	282	50.1	953.3	1,509.1
New industry 3568.--Power Transmission Equipment, N.E.C....	155	127	27.7	544.4	876.4	(X)	(X)	(X)	(X)	(X)
Old industry 3566.--Power Transmission Equipment.....	155	127	27.7	544.4	876.4	501	282	50.1	953.3	1,509.1

(X) Not applicable.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	All employees <sup>1</sup>	Value added by manufac- ture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3561-- PUMPS AND PUMPING EQUIPMENT</b>													
UNITED STATES. . . . .	559	257	55.5	532.9	35.5	71.6	302.2	1 095.7	852.7	1 917.3	56.8	(NA)	(NA)
NORTHEAST REGION. . . . .	118	54	10.3	103.3	6.1	12.3	51.4	234.9	159.0	376.1	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	26	14	1.9	17.0	1.1	2.2	8.5	36.7	26.4	60.8	(D)	(NA)	(NA)
MAINE. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	13	8	1.1	10.1	.6	1.1	4.6	17.4	12.7	30.1	(D)	(NA)	(NA)
RHODE ISLAND. . . . .	5	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	7	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	92	40	8.4	86.0	5.0	10.1	42.9	198.2	132.6	315.3	(D)	(NA)	(NA)
NEW YORK. . . . .	E1 33	15	2.6	24.2	1.4	2.7	10.6	48.9	40.3	86.6	(D)	(NA)	(NA)
NEW JERSEY. . . . .	26	10	2.8	29.2	1.7	3.4	16.0	63.0	46.1	112.5	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	33	15	3.0	32.6	1.9	4.0	16.3	86.3	46.2	116.1	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	203	99	26.8	262.8	17.8	35.7	155.5	541.9	385.5	922.7	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	158	75	17.3	169.8	11.2	22.7	98.1	331.8	264.8	589.9	21.3	(NA)	(NA)
OHIO. . . . .	E1 45	21	7.0	67.7	4.7	9.8	41.7	129.2	100.7	224.7	11.2	(NA)	(NA)
INDIANA. . . . .	E1 13	8	1.4	11.8	.8	1.5	5.8	25.8	25.8	51.2	1.7	(NA)	(NA)
ILLINOIS. . . . .	43	23	4.3	41.6	2.8	5.7	24.2	83.4	66.6	150.3	4.1	(NA)	(NA)
MICHIGAN. . . . .	36	14	2.3	22.9	1.4	2.9	12.8	42.2	27.7	71.5	2.2	(NA)	(NA)
WISCONSIN. . . . .	21	9	2.3	25.8	1.5	2.8	13.6	51.2	44.0	92.2	2.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	45	24	9.7	93.0	6.6	13.0	57.4	210.1	120.7	332.8	(D)	(NA)	(NA)
MINNESOTA. . . . .	15	7	2.6	28.2	1.4	2.9	13.5	60.2	30.7	94.4	(D)	(NA)	(NA)
IDAH. . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS. . . . .	8	4	2.5	22.0	1.9	3.5	14.7	42.2	32.4	74.4	(D)	(NA)	(NA)
SOUTH REGION. . . . .	133	59	9.7	82.1	6.6	13.8	49.8	178.3	145.5	315.4	8.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	40	11	1.1	9.4	.7	1.5	5.6	29.2	13.1	40.7	.9	(NA)	(NA)
GEORGIA. . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	E2 21	6	.3	3.0	.2	.5	1.6	5.7	3.7	9.2	.2	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	14	6	1.7	14.8	1.3	2.7	9.8	29.1	22.2	48.5	2.4	(NA)	(NA)
TENNESSEE. . . . .	E3 7	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. . . . .	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	79	42	6.9	57.9	4.6	9.6	34.4	120.0	110.2	226.2	5.5	(NA)	(NA)
ARKANSAS. . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA. . . . .	5	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . .	23	12	2.7	22.1	1.8	3.6	12.9	41.7	43.4	82.7	2.0	(NA)	(NA)
TEXAS. . . . .	44	25	3.0	27.2	2.0	4.2	16.3	58.6	42.8	95.4	2.5	(NA)	(NA)
WEST REGION. . . . .	105	45	8.8	85.3	5.1	10.1	45.3	140.6	162.7	303.2	4.8	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	16	7	.8	6.6	.5	.9	3.5	13.4	16.1	28.7	.4	(NA)	(NA)
COLORADO. . . . .	6	3	.3	2.6	.2	.4	1.5	4.7	6.7	13.3	.2	(NA)	(NA)
UTAH. . . . .	3	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	89	38	8.0	78.7	4.6	9.2	41.8	127.2	146.6	274.5	4.4	(NA)	(NA)
OREGON. . . . .	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	77	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
<b>3562-- BALL AND ROLLER BEARINGS</b>													
UNITED STATES. . . . .	135	94	50.9	525.5	41.4	83.4	403.7	931.3	610.4	1 530.5	51.3	(NA)	(NA)
NORTHEAST REGION. . . . .	61	40	25.0	259.0	20.6	42.6	205.7	445.7	229.0	668.5	24.0	32.8	457.2
NEW ENGLAND DIVISION. . . . .	22	16	13.2	132.2	11.2	23.5	108.2	228.6	81.4	306.1	10.1	17.9	245.1
NEW HAMPSHIRE. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	15	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION. . . . .	39	24	11.7	126.8	9.3	19.1	97.4	217.1	147.6	362.3	13.9	14.9	211.6
NEW YORK. . . . .	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	59.5
NEW JERSEY. . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA. . . . .	17	12	4.8	48.7	3.7	7.2	35.0	91.2	63.4	152.1	6.8	FF	(D)
NORTH CENTRAL REGION. . . . .	46	35	21.5	232.9	17.1	33.1	173.0	387.9	323.4	711.0	6.8	22.3	321.6
EAST NORTH CENTRAL DIVISION. . . . .	41	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA. . . . .	10	9	4.8	51.2	3.5	7.2	34.0	95.9	51.8	145.9	4.0	3.1	52.9
ILLINOIS. . . . .	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	56.5
MICHIGAN. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	59.3
WISCONSIN. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	5	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS. . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	19	14	4.1	29.4	3.5	7.1	22.9	89.8	54.4	139.9	10.5	3.0	44.4
SOUTH ATLANTIC DIVISION. . . . .	12	10	2.8	19.8	2.3	4.9	15.0	62.1	39.1	100.6	6.1	2.1	33.1
VIRGINIA. . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
NORTH CAROLINA. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH CAROLINA. . . . .	7	6	2.2	16.3	1.9	3.9	12.3	46.0	28.8	74.4	(D)	1.5	19.5
EAST SOUTH CENTRAL DIVISION. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KENTUCKY. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
TENNESSEE. . . . .	2	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	3	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
OKLAHOMA. . . . .	2	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3562-- BALL AND ROLLER BEARINGS--CON.													
WEST REGION. . . . .	9	4	.4	4.1	.2	.4	2.2	7.9	3.6	11.3	.2	.7	10.0
PACIFIC DIVISION. . . . .	9	4	.4	4.1	.2	.4	2.2	7.9	3.6	11.3	.2	.7	10.0
CALIFORNIA. . . . .	9	4	.4	4.1	.2	.4	2.2	7.9	3.6	11.3	.2	.7	10.0
3563-- AIR AND GAS COMPRESSORS													
UNITED STATES. . . . .	84	67	22.9	226.6	13.5	27.2	117.5	467.2	397.0	858.1	15.3	(NA)	(NA)
NORTHEAST REGION. . . . .	25	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	20	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY. . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	9	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	30	26	8.1	74.6	4.3	8.8	36.5	185.5	134.8	319.0	5.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	28	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	11	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	-	-	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	20	13	1.5	13.9	.9	1.8	6.3	22.2	57.1	77.4	2.3	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3564-- BLADERS AND FANS													
UNITED STATES. . . . .	396	172	23.4	216.2	16.0	32.0	126.5	468.8	343.2	805.2	22.3	210	302.2
NORTHEAST REGION. . . . .	97	44	7.6	73.4	5.0	10.0	40.5	183.6	116.3	300.5	11.5	8.1	115.9
NEW ENGLAND DIVISION. . . . .	21	10	1.7	16.6	1.2	2.7	10.9	30.7	20.4	51.8	.8	2.4	30.8
MASSACHUSETTS. . . . .	11	4	.8	7.5	.6	1.3	5.3	14.1	8.6	22.7	.3	1.2	14.5
CONNECTICUT. . . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION. . . . .	76	34	5.9	56.8	3.8	7.4	29.5	152.9	95.8	248.6	10.6	5.7	85.1
NEW YORK. . . . .	31	14	3.2	29.6	2.2	4.5	17.6	59.8	40.1	99.0	2.6	3.1	42.1
NEW JERSEY. . . . .	21	10	1.7	18.2	.8	1.5	6.3	66.2	44.3	111.2	(D)	1.5	27.0
PENNSYLVANIA. . . . .	24	10	1.0	9.0	.7	1.4	5.6	26.9	11.5	38.4	(D)	1.1	16.0
NORTH CENTRAL REGION. . . . .	130	59	8.8	80.7	6.2	12.6	49.8	165.0	113.5	274.6	7.4	8.2	123.0
EAST NORTH CENTRAL DIVISION. . . . .	102	48	7.7	70.2	5.5	11.1	43.7	141.6	99.4	237.8	6.7	7.6	113.4
OHIO. . . . .	31	16	2.6	22.2	1.8	3.5	14.1	45.9	28.4	73.1	1.2	2.3	33.7
INDIANA. . . . .	13	8	1.8	15.0	1.4	2.8	9.9	32.2	26.9	58.1	3.8	1.8	23.3
ILLINOIS. . . . .	30	10	1.6	14.3	1.1	2.5	8.8	27.3	20.6	47.4	.8	1.6	25.1
MICHIGAN. . . . .	17	9	1.5	16.0	1.0	1.9	9.3	29.1	18.4	47.0	.8	1.5	24.3
WISCONSIN. . . . .	11	5	.3	2.7	.2	.4	1.6	7.3	5.1	12.3	.1	.5	7.0
WEST NORTH CENTRAL DIVISION. . . . .	28	11	1.1	10.5	.7	1.5	6.2	23.3	14.1	36.7	.7	.6	9.5
MINNESOTA. . . . .	12	5	.6	6.7	.4	.8	3.8	15.4	8.3	23.3	.2	.5	8.4
MISSOURI. . . . .	11	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS. . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	100	42	4.7	39.9	3.1	5.9	22.2	79.2	88.3	166.1	2.1	3.2	45.0
SOUTH ATLANTIC DIVISION. . . . .	39	16	1.7	14.7	1.1	2.2	7.6	24.4	33.3	58.0	.6	1.2	10.7
MARYLAND. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA. . . . .	8	5	.4	2.5	.3	.5	1.6	6.5	4.6	11.1	.1	(NA)	(NA)
FLORIDA. . . . .	17	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	26	16	2.0	17.8	1.3	2.5	10.5	43.9	42.3	84.7	.9	EE	(D)
KENTUCKY. . . . .	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE. . . . .	10	6	.4	3.6	.2	.4	1.4	6.2	8.8	13.9	.2	.2	1.8
ALABAMA. . . . .	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	35	10	1.0	7.4	.7	1.3	4.1	10.9	12.7	23.4	.6	BB	(D)
OKLAHOMA. . . . .	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS. . . . .	24	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION. . . . .	69	27	2.3	22.2	1.7	3.5	14.0	41.1	25.1	64.2	1.3	1.5	18.3
MOUNTAIN DIVISION. . . . .	15	2	.2	1.3	.1	.2	.8	3.1	2.6	5.7	.1	(NA)	(NA)
PACIFIC DIVISION. . . . .	54	25	2.1	20.9	1.5	3.2	13.2	37.9	22.5	58.5	1.2	1.4	17.5
OREGON. . . . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	46	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3565-- INDUSTRIAL PATTERNS													
UNITED STATES. . . . .	E2 1 021	97	8.5	103.1	7.4	13.9	85.3	161.0	38.8	198.0	5.3	(NA)	(NA)
NORTHEAST REGION. . . . .	E3 257	17	1.5	14.8	1.3	2.5	12.4	24.8	6.3	31.1	.7	2.2	28.7
NEW ENGLAND DIVISION. . . . .	E3 72	4	.4	4.0	.3	.6	3.1	6.6	1.7	8.2	.2	.6	7.7
MASSACHUSETTS. . . . .	E2 38	3	.2	2.3	.2	.4	1.8	4.0	1.1	5.2	.1	.88	(0)
MIDDLE ATLANTIC DIVISION. . . . .	E3 185	13	1.1	10.9	1.0	1.9	9.2	18.2	4.7	22.9	.5	1.6	21.0
NEW YORK. . . . .	E3 56	4	.3	3.2	.3	.5	2.7	5.0	1.4	6.4	.2	.5	7.3
NEW JERSEY. . . . .	E3 36	1	.2	1.5	.1	.3	1.2	3.4	1.0	4.3	.1	.3	3.8
PENNSYLVANIA. . . . .	E2 93	8	.6	6.2	.6	1.1	5.3	9.9	2.3	12.2	.2	.8	9.8
NORTH CENTRAL REGION. . . . .	E1 533	68	5.6	74.7	4.8	9.1	61.7	112.9	24.1	137.1	4.0	7.4	118.5
EAST NORTH CENTRAL DIVISION. . . . .	E1 478	63	5.1	68.3	4.4	8.3	56.3	102.9	23.3	124.5	3.6	FF	(0)
OHIO. . . . .	E2 120	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
INDIANA. . . . .	E1 37	5	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ILLINOIS. . . . .	E1 94	13	.9	11.8	.8	1.4	9.7	17.8	3.7	21.6	.5	1.1	15.6
MICHIGAN. . . . .	E1 160	31	2.3	33.0	2.0	3.8	27.4	51.1	11.1	60.5	2.1	3.3	57.5
WISCONSIN. . . . .	E1 67	5	.6	7.4	.5	.9	6.3	10.3	2.7	12.8	(0)	.7	10.0
WEST NORTH CENTRAL DIVISION. . . . .	E1 55	5	.5	6.4	.5	.9	5.5	10.0	2.8	12.7	.4	CC	(0)
SOUTH REGION. . . . .	E2 103	7	.6	6.1	.6	1.1	5.0	10.3	3.1	13.5	.4	.5	6.1
EAST SOUTH CENTRAL DIVISION. . . . .	E1 26	4	.3	2.8	.3	.5	2.3	4.9	1.5	6.6	.2	.2	2.4
ALABAMA. . . . .	11	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	E3 51	1	.2	2.1	.2	.4	1.8	3.6	1.0	4.7	.1	.2	2.2
WEST REGION. . . . .	E4 128	5	.7	7.5	.6	1.2	6.2	13.0	3.3	16.2	.3	.8	12.1
PACIFIC DIVISION. . . . .	E4 115	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	11.2
CALIFORNIA. . . . .	E5 99	3	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.5	9.3
3566-- SPEED CHANGERS, DRIVES, AND GEARS													
UNITED STATES. . . . .	346	155	22.4	224.2	15.6	30.6	137.5	408.9	231.3	632.7	21.8	(NA)	(NA)
NORTHEAST REGION. . . . .	109	49	6.2	62.9	4.2	8.3	37.3	105.5	75.9	180.7	(0)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	33	14	1.6	16.6	1.1	2.1	9.3	31.2	22.8	54.1	(0)	(NA)	(NA)
MASSACHUSETTS. . . . .	24	10	1.3	14.3	.9	1.8	8.0	26.4	18.2	44.6	(0)	(NA)	(NA)
CONNECTICUT. . . . .	7	3	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	76	35	4.6	46.3	3.1	6.2	28.0	74.3	53.1	126.6	(0)	(NA)	(NA)
NEW YORK. . . . .	E2 35	14	1.0	9.2	.8	1.4	5.9	15.4	7.7	22.6	(0)	(NA)	(NA)
NEW JERSEY. . . . .	E1 20	8	.8	8.2	.6	1.1	5.2	12.4	8.8	20.6	(0)	(NA)	(NA)
PENNSYLVANIA. . . . .	21	13	2.7	28.9	1.8	3.6	16.9	46.6	36.5	83.5	(0)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	172	90	14.7	145.8	10.3	20.0	90.6	271.2	138.7	405.0	(0)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	139	74	12.6	126.4	8.8	17.0	78.9	235.8	115.2	348.2	14.4	(NA)	(NA)
OHIO. . . . .	29	15	1.6	16.8	1.1	2.3	10.5	28.5	16.8	46.6	1.1	(NA)	(NA)
INDIANA. . . . .	13	8	2.4	23.5	1.7	3.2	15.0	48.4	22.5	69.2	4.5	(NA)	(NA)
ILLINOIS. . . . .	51	31	4.0	40.4	2.9	5.9	26.5	71.3	34.3	104.1	(0)	(NA)	(NA)
MICHIGAN. . . . .	29	13	.9	9.3	.6	1.1	5.3	18.9	10.5	29.4	.5	(NA)	(NA)
WISCONSIN. . . . .	17	6	3.6	36.4	2.4	4.6	21.6	68.7	31.2	99.0	(0)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	33	17	2.2	19.4	1.6	3.0	11.7	35.5	23.5	56.8	(0)	(NA)	(NA)
MINNESOTA. . . . .	14	6	.6	6.1	.5	1.0	4.3	10.7	6.9	17.1	(0)	(NA)	(NA)
IOWA. . . . .	4	3	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MISSOURI. . . . .	E1 13	6	.4	4.4	.3	.6	2.8	7.9	7.2	15.2	(0)	(NA)	(NA)
SOUTH DAKOTA. . . . .	1	1	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
KANSAS. . . . .	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
SOUTH REGION. . . . .	21	6	.5	5.2	.3	.7	2.4	8.6	4.3	12.0	.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	13	6	.5	5.0	.3	.7	2.4	7.9	3.8	10.8	.4	(NA)	(NA)
NORTH CAROLINA. . . . .	5	3	.3	3.5	.2	.4	1.3	3.9	1.6	5.5	(0)	(NA)	(NA)
WEST REGION. . . . .	44	10	1.1	10.4	.8	1.6	7.2	23.6	12.5	35.0	.4	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	6	1	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
COLORADO. . . . .	6	1	.88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION. . . . .	38	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA. . . . .	34	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
3567-- INDUSTRIAL FURNACES AND OVENS													
UNITED STATES. . . . .	266	108	13.6	138.5	8.1	16.0	69.8	244.3	200.3	443.2	7.5	(NA)	(NA)
NORTHEAST REGION. . . . .	88	43	5.3	53.3	3.3	6.2	28.5	83.6	83.0	169.0	2.5	6.7	110.6
NEW ENGLAND DIVISION. . . . .	19	10	.7	6.5	.4	.7	3.0	9.9	9.4	19.4	.2	1.4	16.7
MASSACHUSETTS. . . . .	E2 10	3	.2	1.8	.1	.2	.9	2.7	2.6	5.3	.1	.7	7.1
CONNECTICUT. . . . .	5	3	.2	2.3	.1	.3	1.2	3.9	3.9	7.8	.1	.4	5.7
MIDDLE ATLANTIC DIVISION. . . . .	69	33	4.6	46.8	2.9	5.5	25.5	73.7	73.6	149.5	.3	5.2	93.9
NEW YORK. . . . .	E1 19	6	.5	5.2	.4	.6	3.2	8.2	5.1	13.3	.1	.5	6.9
NEW JERSEY. . . . .	23	10	.9	10.8	.6	1.1	5.5	18.5	18.5	37.3	(NA)	.9	15.4
PENNSYLVANIA. . . . .	27	17	3.1	30.8	1.9	3.7	16.8	46.9	50.0	99.0	(NA)	3.8	71.7

See footnotes at end of table.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3567-- INDUSTRIAL FURNACES, OVENS--CON.													
NORTH CENTRAL REGION . . . . .	106	46	5.9	63.6	3.3	6.7	29.9	118.4	85.5	201.2	2.6	8.2	129.5
EAST NORTH CENTRAL DIVISION. . .	93	43	5.4	58.2	3.0	6.1	27.6	107.5	80.9	185.9	2.5	7.6	121.1
OHIO . . . . .	33	14	2.3	25.2	1.2	2.1	10.8	42.0	39.6	81.5	.9	3.0	50.2
INDIANA . . . . .	7	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ILLINOIS . . . . .	13	8	.8	9.8	.5	1.1	4.1	19.0	10.9	30.0	.3	2.3	30.1
MICHIGAN . . . . .	32	12	.8	10.0	.5	1.1	5.9	20.7	12.3	31.9	.7	12.7	(0)
WISCONSIN . . . . .	8	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
WEST NORTH CENTRAL DIVISION. . .	13	3	.5	5.4	.3	.6	2.4	10.9	4.6	15.3	.2	.6	6.4
MINNESOTA . . . . .	4	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
MISSOURI . . . . .	6	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
SOUTH REGION . . . . .	17	4	.8	5.4	.6	1.3	3.7	11.0	9.3	20.0	1.3	.3	6.0
EAST SOUTH CENTRAL DIVISION. . .	3	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
TENNESSEE . . . . .	2	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	10	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST REGION . . . . .	55	15	1.6	16.2	.9	1.9	7.6	31.3	22.5	53.0	1.0	.9	13.3
PACIFIC DIVISION . . . . .	50	14	1.5	15.9	.9	1.8	7.5	30.8	22.1	52.2	1.0	CC	(0)
CALIFORNIA . . . . .	45	12	1.4	15.1	.8	1.7	7.0	29.5	21.3	50.0	1.0	.8	(0)
3568-- POWER TRANSMISSION EQUIPMENT, NEC													
UNITED STATES . . . . .	155	127	27.7	266.5	20.8	42.0	183.0	544.4	340.3	876.4	20.4	(NA)	(NA)
NORTHEAST REGION . . . . .	40	29	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	18	16	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MASSACHUSETTS . . . . .	10	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CONNECTICUT . . . . .	6	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	22	13	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW YORK . . . . .	4	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEW JERSEY . . . . .	10	6	.6	6.6	.5	1.0	4.1	18.5	8.6	27.1	(0)	(NA)	(NA)
PENNSYLVANIA . . . . .	8	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	82	68	16.7	167.6	12.5	25.1	117.1	344.8	205.4	539.8	12.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	71	59	15.8	160.9	11.9	23.9	112.5	327.7	190.9	508.7	11.8	(NA)	(NA)
OHIO . . . . .	20	17	1.8	16.2	1.4	2.8	11.2	35.5	23.8	57.0	1.0	(NA)	(NA)
INDIANA . . . . .	8	8	4.6	44.9	3.5	7.0	33.0	78.9	38.5	116.0	2.7	(NA)	(NA)
ILLINOIS . . . . .	5	10	2.9	30.2	2.0	4.3	18.9	62.5	40.7	101.4	2.2	(NA)	(NA)
MICHIGAN . . . . .	11	12	4.2	43.5	3.3	6.2	31.5	94.3	58.8	149.9	3.9	(NA)	(NA)
WISCONSIN . . . . .	12	12	2.2	26.2	1.6	3.6	17.9	56.6	29.1	84.4	1.9	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	11	9	.9	6.6	.6	1.1	4.5	17.1	14.5	31.1	.7	(NA)	(NA)
MINNESOTA . . . . .	5	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
IOWA . . . . .	2	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NEBRASKA . . . . .	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
SOUTH REGION . . . . .	22	20	3.4	29.3	2.5	5.4	20.0	63.4	62.7	130.8	2.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	10	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MARYLAND . . . . .	2	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
VIRGINIA . . . . .	4	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
KENTUCKY . . . . .	1	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TENNESSEE . . . . .	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	9	8	.9	6.8	.7	1.5	4.7	15.3	9.6	24.9	.9	(NA)	(NA)
ARKANSAS . . . . .	2	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TEXAS . . . . .	5	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST REGION . . . . .	11	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
COLORADO . . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION . . . . .	10	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA . . . . .	9	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
3569-- GENERAL INDUSTRIAL MACHINERY, NEC													
UNITED STATES . . . . .	900	358	36.9	350.9	24.0	48.0	195.9	696.2	482.5	1 169.4	31.3	(NA)	(NA)
NORTHEAST REGION . . . . .	296	126	12.8	121.7	7.8	15.4	62.6	251.7	165.0	411.2	11.0	15.2	193.0
NEW ENGLAND DIVISION . . . . .	82	32	3.7	35.1	2.3	4.7	17.1	80.9	41.6	120.2	4.4	4.1	53.7
NEW HAMPSHIRE . . . . .	9	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
MASSACHUSETTS . . . . .	38	15	1.4	14.2	.8	1.7	6.1	35.0	16.0	48.4	3.6	1.2	12.5
RHODE ISLAND . . . . .	2	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
CONNECTICUT . . . . .	31	11	1.3	10.3	.8	1.7	6.0	24.0	13.4	38.2	1.1	2.3	29.8
MIDDLE ATLANTIC DIVISION . . . .	214	94	9.1	86.6	5.5	10.7	45.5	170.8	123.4	291.0	6.6	11.1	139.3
NEW YORK . . . . .	85	32	3.0	29.4	1.8	3.6	15.4	62.1	41.2	102.3	2.3	4.8	62.0
NEW JERSEY . . . . .	76	38	2.7	25.6	1.7	3.0	13.2	49.7	31.5	80.0	2.8	2.2	28.6
PENNSYLVANIA . . . . .	53	24	3.4	31.6	2.0	4.1	16.9	59.0	50.7	108.7	1.5	4.0	48.7
NORTH CENTRAL REGION . . . . .	314	129	12.8	129.5	8.4	17.4	76.9	250.2	155.5	406.4	9.9	15.3	230.5
EAST NORTH CENTRAL DIVISION. . .	266	113	11.7	119.4	7.7	16.0	70.9	221.8	143.0	365.0	9.6	14.1	214.0
OHIO . . . . .	52	13	1.9	17.0	1.2	2.4	10.0	39.7	18.5	58.9	1.7	3.2	47.5
INDIANA . . . . .	22	11	.8	8.7	.6	1.3	6.4	15.9	13.8	30.1	1.3	2.0	29.0
ILLINOIS . . . . .	82	31	2.9	30.4	2.0	4.3	19.0	45.3	33.4	81.7	(0)	3.7	55.7
MICHIGAN . . . . .	73	36	2.9	32.4	1.9	3.8	18.6	60.5	36.8	95.4	1.6	2.3	35.1
WISCONSIN . . . . .	37	22	3.2	30.9	2.0	4.2	16.9	60.4	40.5	98.9	(0)	2.9	46.6

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3569-- GENERAL INDUSTRIAL MACHINERY, NEC--CONTINUED													
NORTH CENTRAL REGION--CON.													
WEST NDRTH CENTRAL DIVISION. . E1	48	16	1.1	10.1	.7	1.4	6.0	28.4	12.5	41.4	.3	1.2	17.1
MINNESOTA. . . . .	20	9	.7	6.4	.5	.9	3.9	22.2	7.0	29.7	.2	.5	7.3
MISSOURI. . . . .	15	5	.3	2.8	.2	.3	1.6	3.9	3.8	7.7	.1	.3	3.4
SDUTH REGIDN . . . . .	148	53	6.0	50.8	4.1	8.5	29.8	99.6	82.7	180.7	6.4	4.2	52.0
SDUTH ATLANTIC DIVISION. . . . .	71	25	2.8	22.9	1.9	4.0	13.1	47.9	41.8	88.2	4.6	1.3	19.0
MARYLAND. . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
WEST VIRGINIA. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CAROLINA. . . . . E1	15	6	.8	5.1	.6	1.3	3.1	13.4	9.1	21.7	2.3	.4	5.6
GEORGIA. . . . .	14	6	.5	4.3	.3	.7	2.3	9.4	7.4	16.5	.2	.4	7.0
FLDRIDA. . . . .	21	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.7
EAST SDUTH CENTRAL DIVISION. . .	23	12	1.4	12.6	1.0	2.2	8.3	24.7	18.3	42.5	1.0	1.3	15.9
KENTUCKY. . . . .	4	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
TENNESSEE. . . . .	9	5	.7	5.2	.5	1.0	3.2	9.9	6.0	15.7	.6	CC	(D)
ALABAMA. . . . .	9	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SDUTH CENTRAL DIVISION. . E1	54	16	1.8	15.4	1.2	2.4	8.5	27.1	22.5	50.0	.8	1.5	17.0
OKLAHOMA. . . . .	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS. . . . . E2	37	10	.9	6.3	.7	1.3	4.1	12.4	10.2	22.4	.4	.9	9.1
WEST REGION. . . . .	143	51	5.3	48.7	3.5	6.6	26.6	94.5	79.5	171.1	4.0	4.6	60.4
MDUNTAIN DIVISION. . . . .	16	5	1.3	12.7	.9	1.6	6.9	24.3	24.9	48.7	.8	EE	(D)
UTAH. . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PACIFIC DIVISION. . . . .	127	46	3.9	36.0	2.6	5.0	19.7	70.2	54.5	122.4	3.2	FF	(D)
DREGDN. . . . .	6	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	112	40	3.5	31.7	2.3	4.5	17.1	63.4	47.7	108.5	3.0	2.8	37.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area, on Old (1967) SIC Basis: 1972

(See appendix, Explanation of Terms)

Geographic area	1972										
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
INDUSTRY 3561.--PUMPS AND PUMPING EQUIPMENT											
United States.....	643	324	78.4	759.5	49.0	98.8	419.7	1,562.9	1,249.7	2,775.4	72.1
Northeast Region.....	143	76	23.4	237.3	14.2	28.6	124.1	485.8	355.5	820.9	(D)
New England Division.....	31	18	3.4	34.2	1.9	3.8	15.8	70.9	45.0	112.3	(D)
Maine.....	1	1	DD	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	16	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rhode Island.....	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Connecticut.....	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic Division.....	112	59	20.0	203.1	12.3	24.8	108.3	414.9	310.5	708.6	(D)
New York.....	39	20	8.2	81.6	4.8	9.4	40.6	156.7	118.6	272.0	(D)
New Jersey.....	31	14	3.4	36.0	2.0	3.9	18.6	74.1	70.6	148.2	(D)
Pennsylvania.....	42	24	8.4	85.5	5.5	11.4	49.1	184.1	121.3	288.3	(D)
North Central Region.....	233	125	34.9	337.4	22.1	44.5	192.0	727.4	520.3	1,241.7	(D)
East North Central Division....	186	100	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ohio.....	51	26	10.1	99.0	6.1	12.7	55.3	182.7	141.7	324.6	11.9
Indiana.....	17	11	2.6	23.1	1.3	2.5	10.5	51.1	51.0	100.8	4.3
Illinois.....	54	34	7.6	70.0	4.9	9.8	39.9	184.2	125.9	304.1	6.2
Michigan.....	39	17	2.4	23.8	1.5	3.1	13.4	44.0	29.5	74.7	2.2
Wisconsin.....	25	12	2.6	28.1	1.7	3.3	15.1	54.6	49.3	101.7	2.5
West North Central Division....	47	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota.....	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Iowa.....	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska.....	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Region.....	153	72	11.2	96.0	7.5	15.6	56.1	200.5	202.6	392.8	11.1
South Atlantic Division.....	43	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina.....	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Georgia.....	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Florida.....	21	6	.3	3.0	.2	.5	1.6	5.7	3.7	9.2	.2
East South Central Division....	18	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kentucky.....	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee.....	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mississippi.....	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West South Central Division....	92	50	7.6	64.7	5.1	10.5	38.0	129.2	131.2	257.4	6.5
Arkansas.....	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Louisiana.....	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oklahoma.....	27	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Texas.....	52	30	3.5	32.1	2.3	4.2	18.9	64.8	59.9	119.9	2.9
West Region.....	114	51	9.1	88.8	5.3	10.4	47.0	149.2	171.1	319.9	5.0
Mountain Division.....	16	7	.8	6.6	.5	.9	3.5	13.4	16.1	28.7	.4
Colorado.....	6	3	.3	2.6	.2	.4	1.5	4.7	8.7	13.3	.2
Utah.....	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific Division.....	98	44	8.3	82.2	4.8	9.5	43.5	135.8	155.0	291.2	4.8
Oregon.....	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
California.....	83	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 3566.--SPEED CHANGERS, DRIVES, AND GEARS											
United States.....	501	282	50.1	490.7	36.4	72.6	320.5	953.3	571.6	1,509.1	42.2
Northeast Region.....	149	78	12.6	121.6	9.0	17.9	75.7	220.7	134.0	351.8	(D)
New England Division.....	51	30	4.3	41.7	3.2	6.4	26.7	78.3	46.3	123.8	(D)
Massachusetts.....	34	19	3.2	31.4	2.3	4.6	20.0	56.7	35.2	90.5	(D)
Connecticut.....	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic Division.....	98	48	8.2	79.8	5.7	11.5	49.0	143.0	87.1	228.1	(D)
New York.....	39	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Jersey.....	30	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pennsylvania.....	30	19	4.1	40.6	2.8	5.9	24.7	71.3	50.0	120.4	(D)

See footnotes at end of table.



TABLE 2B. General Statistics by Geographic Area, on Old (1967) SIC Basis: 1972—Continued

(See appendix, Explanation of Terms)

Geographic area	1972										
	Establishments		All employees		Production, development, and exploration workers			Value added in mining	Cost of supplies, etc., and purchased machinery installed	Value of industry shipments and receipts	Capital expenditures, new
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
INDUSTRY 3566.--SPEED CHANGERS, DRIVES, AND GEARS--Continued											
North Central Region.....	254	158	31.4	313.4	22.8	45.1	207.7	616.0	344.1	944.8	(D)
East North Central Division....	210	133	28.4	287.3	20.7	40.9	191.4	563.5	306.1	856.9	(D)
Ohio.....	49	32	3.4	33.0	2.5	5.1	21.6	64.0	40.6	103.6	2.1
Indiana.....	22	16	7.0	68.4	5.2	10.2	48.0	127.3	61.0	185.1	7.2
Illinois.....	66	41	6.9	70.6	4.9	10.2	45.4	133.8	75.0	205.5	(D)
Michigan.....	44	25	5.1	52.8	3.9	7.3	36.8	113.2	69.3	179.3	4.4
Wisconsin.....	29	18	5.8	62.6	4.0	8.2	39.5	125.3	60.3	183.4	(D)
West North Central Division....	44	26	3.1	26.0	2.2	4.1	16.2	52.6	38.0	87.9	(D)
Minnesota.....	19	10	.9	8.4	.7	1.4	5.7	16.2	11.5	27.0	(D)
Iowa.....	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kansas.....	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Region.....	43	26	3.9	34.4	2.8	6.1	22.4	71.9	67.0	142.8	3.2
South Atlantic Division.....	23	15	1.6	15.4	1.1	2.5	9.8	28.4	24.9	51.1	1.1
Maryland.....	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Carolina.....	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
East South Central Division....	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kentucky.....	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee.....	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West South Central Division....	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Arkansas.....	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Texas.....	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West Region.....	55	20	2.4	21.6	1.8	3.5	14.8	44.8	26.4	69.7	1.0
Mountain Division.....	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific Division.....	48	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Washington.....	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
California.....	42	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

(See appendix. Explanation of Terms)

Item	Pumps and pumping equipment (SIC 3561)	Ball and roller bearings (SIC 3562)	Air and gas compressors (SIC 3563)	Blowers and fans (SIC 3564)	Industrial patterns (SIC 3565)	Speed changers, drives, and gears (SIC 3566)	Industrial furnaces and ovens (SIC 3567)	Power transmission equipment, n.e.c. (SIC 3568)	General industrial machinery, n.e.c. (SIC 3569)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . PERCENT . . .	83	94	83	79	95	88	78	87	85
COVERAGE RATIO <sup>2</sup> . . . . .00 . . .	86	99	90	84	78	89	91	74	81
ESTABLISHMENTS, TOTAL . . . . .NUMBER . . .	559	135	84	396	1 021	346	266	155	900
WITH 1 TO 19 EMPLOYEES. . . . .00 . . .	302	40	17	224	924	191	158	28	542
WITH 20 TO 99 EMPLOYEES. . . . .00 . . .	123	24	29	115	91	104	75	67	275
WITH 100 EMPLOYEES OR MORE. . . . .00 . . .	134	70	38	57	6	51	33	60	83
ALL EMPLOYEES, AVERAGE FOR YEAR . . . 1,000 . . .	55.5	51.0	22.9	23.4	8.5	22.4	13.6	27.7	36.9
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS . . .	532.9	525.5	226.6	216.2	103.1	224.2	138.5	266.5	350.9
PRODUCTION WORKERS:									
AVERAGE FOR YEAR. . . . .1,000 . . .	35.5	41.4	13.5	16.0	7.4	15.6	8.1	20.8	24.0
MARCH . . . . .00 . . .	34.8	40.0	12.9	15.7	7.3	15.2	7.9	20.0	23.4
MAY . . . . .00 . . .	35.1	40.9	13.5	15.8	7.4	15.3	7.8	20.5	23.7
AUGUST. . . . .00 . . .	35.6	41.7	13.8	16.1	7.4	15.7	8.3	20.8	24.3
NOVEMBER. . . . .00 . . .	36.5	43.0	13.7	16.2	7.5	16.2	8.4	21.6	24.5
MAN-HOURS . . . . .MILLIONS . . .	71.6	83.4	27.2	32.0	13.9	30.6	16.0	42.0	48.0
JANUARY-MARCH . . . . .00 . . .	17.7	20.2	6.5	7.8	3.4	7.4	3.9	10.0	11.6
APRIL-JUNE . . . . .00 . . .	18.1	21.3	6.8	8.2	3.5	7.8	3.9	10.7	12.0
JULY-SEPTEMBER. . . . .00 . . .	17.3	19.8	6.7	7.7	3.4	7.4	3.9	10.2	12.0
OCTOBER-DECEMBER. . . . .00 . . .	18.6	21.9	7.2	8.3	3.6	8.0	4.2	11.1	12.5
WAGES . . . . .MILLION DOLLARS . . .	302.2	403.7	117.5	126.5	85.3	137.5	69.8	183.0	195.9
COST OF MATERIALS, ETC., TOTAL . . . . .00 . . .	852.7	610.4	397.0	343.2	38.8	231.3	200.3	340.3	482.2
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .00 . . .	727.3	551.2	347.9	285.9	29.1	194.5	177.9	290.0	413.6
COST OF REALES . . . . .00 . . .	90.6	26.1	29.5	30.3	.8	17.4	10.6	30.6	39.4
FUELS CONSUMED . . . . .00 . . .	4.7	9.7	3.4	2.3	.9	2.4	1.1	4.2	2.7
PURCHASED ELECTRIC ENERGY . . . . .00 . . .	10.4	13.9	3.8	3.4	1.5	4.2	2.3	5.9	6.1
CONTRACT WORK . . . . .00 . . .	19.7	9.4	12.4	21.3	6.5	12.8	8.4	9.6	20.9
VALUE OF SHIPMENTS, INCLUDING REALES . . . . .00 . . .	1 917.3	1 530.5	858.1	805.2	198.0	632.7	443.2	876.4	1 169.4
VALUE OF REALES. . . . .00 . . .	109.9	32.8	33.2	55.4	1.3	22.3	14.5	43.6	47.2
VALUE ADDED BY MANUFACTURE. . . . .00 . . .	1 095.7	931.3	467.2	468.8	161.0	408.9	244.3	544.4	696.2
MANUFACTURERS' INVENTORIES:									
BEGINNING OF YEAR, TOTAL . . . . .00 . . .	482.7	380.5	283.3	116.0	11.0	138.6	73.8	194.7	235.0
FINISHED PRODUCTS . . . . .00 . . .	162.1	128.6	137.1	19.9	1.8	55.9	12.4	81.6	71.2
WORK IN PROCESS . . . . .00 . . .	216.0	179.4	112.0	43.1	6.4	52.7	31.3	66.5	92.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 . . .	104.6	72.5	34.2	53.0	2.7	30.0	30.1	46.5	71.8
END OF YEAR, TOTAL. . . . .00 . . .	534.5	398.5	286.8	125.4	12.9	147.6	75.7	207.9	253.0
FINISHED PRODUCTS . . . . .00 . . .	163.7	126.6	142.7	24.7	1.7	56.1	12.0	82.7	70.0
WORK IN PROCESS . . . . .00 . . .	245.2	192.5	112.6	45.0	8.4	60.0	33.2	73.9	101.0

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

(See appendix, Explanation of Terms)

Item	Establishments  (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
<b>3561-- PUMPS AND PUMPING EQUIPMENT</b>											
ESTABLISHMENTS, TOTAL. . . . .	559	55.5	532.9	35.5	71.6	302.2	1 095.7	852.7	1 917.3	56.8	534.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	151	.3	2.7	.2	.4	1.5	6.4	5.9	12.6	.4	3.8
5 TO 9 EMPLOYEES . . . . . E6	70	.5	4.3	.3	.6	2.4	9.7	9.5	19.0	.6	5.3
10 TO 19 EMPLOYEES . . . . . E2	81	1.0	9.6	.7	1.5	5.2	22.5	22.5	44.2	.8	8.8
20 TO 49 EMPLOYEES . . . . .	79	2.6	23.0	1.7	3.1	11.1	49.1	44.4	89.1	2.4	20.6
50 TO 99 EMPLOYEES . . . . . E1	44	3.1	29.0	2.2	4.3	16.3	73.5	49.5	118.6	2.8	28.1
100 TO 249 EMPLOYEES . . . . .	69	11.6	101.3	7.3	14.8	55.4	228.0	167.8	385.8	13.2	99.7
250 TO 499 EMPLOYEES . . . . .	40	13.5	135.3	8.3	16.8	74.0	259.8	228.6	478.8	11.0	150.6
500 TO 999 EMPLOYEES . . . . .	15	10.3	101.5	6.8	14.0	61.7	198.3	156.3	358.6	12.7	109.1
1,000 TO 2,499 EMPLOYEES . . . . .	10	12.7	126.5	8.2	16.2	74.6	248.4	168.3	410.7	12.8	108.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	157	.5	4.4	.3	.6	2.5	11.4	9.9	21.3	.7	6.6
<b>3562-- BALL AND ROLLER BEARINGS</b>											
ESTABLISHMENTS, TOTAL. . . . .	135	51.0	525.5	41.4	83.4	403.7	931.3	610.4	1 530.5	51.3	398.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E0	16	(Z)	.3	(Z)	.1	.2	.8	.5	1.2	.5	.3
5 TO 9 EMPLOYEES . . . . . E2	9	.1	.6	(Z)	.1	.4	1.2	.4	1.6	(Z)	.2
10 TO 19 EMPLOYEES . . . . . E1	17	.2	2.1	.2	.4	1.5	4.1	1.8	5.8	.2	.9
20 TO 49 EMPLOYEES . . . . .	11	.4	3.2	.3	.5	2.0	7.1	4.7	11.7	.7	3.4
50 TO 99 EMPLOYEES . . . . .	12	.9	8.7	.7	1.4	5.4	15.9	23.5	40.2	.7	9.5
100 TO 249 EMPLOYEES . . . . .	22	3.2	28.0	2.5	5.0	19.8	62.7	49.2	108.8	2.9	28.3
250 TO 499 EMPLOYEES . . . . .	20	7.3	64.8	5.8	11.9	48.1	149.7	82.4	224.3	11.9	62.1
500 TO 999 EMPLOYEES . . . . .	15	10.7	100.1	8.8	17.3	77.5	162.6	97.0	259.5	11.1	99.7
1,000 TO 2,499 EMPLOYEES . . . . .	9	14.4	139.5	11.3	22.8	118.3	272.5	203.4	475.8	11.0	102.2
2,500 EMPLOYEES OR MORE. . . . .	4	13.7	158.3	11.7	23.9	130.6	254.9	147.5	401.7	11.2	92.0
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	13	(Z)	.3	(Z)	.1	.2	.6	.4	1.0	(Z)	.0

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments  (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3563-- AIR AND GAS COMPRESSORS											
ESTABLISHMENTS, TOTAL. . . . .	84	22.9	226.6	13.5	27.2	117.5	467.2	397.0	858.1	15.3	286.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	3	(Z)	.3	(Z)	(Z)	.1	1.1	2.1	3.4	(Z)	.4
5 TO 9 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	11	.2	1.8	.1	.3	1.2	4.4	3.4	7.6	(Z)	1.4
20 TO 49 EMPLOYEES . . . . .	18	.4	5.5	.3	.6	3.2	10.2	11.1	21.0	.3	4.1
50 TO 99 EMPLOYEES . . . . .	15	.8	5.6	.5	1.0	3.4	16.9	18.9	36.2	.9	6.2
100 TO 249 EMPLOYEES . . . . .	15	4.2	41.9	2.5	4.8	19.4	60.2	62.4	123.1	3.1	33.7
250 TO 499 EMPLOYEES . . . . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES . . . . .	9	7.3	73.4	4.1	8.1	37.5	159.8	129.2	287.4	5.1	104.7
1,000 TO 2,499 EMPLOYEES . . . . .	6	10.0	97.8	5.9	12.3	52.7	192.8	115.6	309.1	4.7	106.5
3564-- BLOWERS AND FANS											
ESTABLISHMENTS, TOTAL. . . . .	396	23.4	216.2	16.0	32.0	126.5	468.8	343.2	805.2	22.3	125.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	110	.2	1.8	.2	.3	1.1	4.3	3.1	7.4	.2	1.2
5 TO 9 EMPLOYEES . . . . . E4	55	.4	3.3	.2	.5	1.8	7.5	5.7	13.2	.3	2.0
10 TO 19 EMPLOYEES . . . . . E2	59	.8	6.5	.6	1.1	3.9	16.2	11.2	27.4	.5	3.6
20 TO 49 EMPLOYEES . . . . . E1	83	2.7	24.5	1.9	3.7	14.5	50.2	39.1	88.7	1.3	11.8
50 TO 99 EMPLOYEES . . . . .	32	2.4	18.9	1.8	3.7	12.2	43.3	31.6	73.6	1.8	11.9
100 TO 249 EMPLOYEES . . . . .	30	4.5	41.3	3.2	6.3	24.9	80.4	63.5	143.1	3.1	26.3
250 TO 499 EMPLOYEES . . . . .	17	5.5	50.0	3.9	8.1	31.2	104.0	65.8	167.2	8.3	27.9
500 TO 999 EMPLOYEES . . . . .	9	6.9	69.9	4.2	8.3	36.9	162.9	123.4	284.9	6.8	40.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(D)	(0)	(0)	(0)	(0)	(D)	(D)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	108	.4	3.1	.3	.5	1.8	6.9	5.3	12.1	.3	2.1
3565-- INDUSTRIAL PATTERNS											
ESTABLISHMENTS, TOTAL. . . . . E2	1 021	8.5	103.1	7.4	13.9	85.3	161.0	38.8	198.0	5.3	12.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	560	1.0	11.2	1.0	1.8	9.2	23.5	6.3	29.8	.7	1.7
5 TO 9 EMPLOYEES . . . . . E3	202	1.4	16.0	1.2	2.2	13.5	25.5	6.0	31.5	.6	1.6
10 TO 19 EMPLOYEES . . . . .	162	2.2	25.3	1.9	3.5	20.9	37.7	8.8	46.3	1.0	2.5
20 TO 49 EMPLOYEES . . . . .	74	2.1	24.1	1.7	3.3	19.5	33.7	9.0	42.4	1.0	2.6
50 TO 99 EMPLOYEES . . . . .	17	1.1	16.0	1.0	1.9	13.3	24.2	5.6	29.4	1.7	2.1
100 TO 249 EMPLOYEES . . . . .	6	.7	10.6	.6	1.1	8.9	16.4	3.1	18.5	.3	2.3
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	545	1.2	13.1	1.2	2.1	10.7	26.7	7.3	33.9	.8	2.0
3566-- SPEED CHANGERS, DRIVES, AND GEARS											
ESTABLISHMENTS, TOTAL. . . . .	346	22.4	224.2	15.6	30.6	137.5	408.9	231.3	632.7	21.8	147.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	93	.2	1.4	.2	.2	.9	2.8	1.8	4.6	.3	1.1
5 TO 9 EMPLOYEES . . . . . E5	52	.3	3.1	.2	.5	1.9	8.6	5.5	13.9	.3	2.6
10 TO 19 EMPLOYEES . . . . . E1	46	.7	6.2	.5	1.0	4.2	10.6	4.8	15.4	.7	1.7
20 TO 49 EMPLOYEES . . . . . E1	72	2.5	23.8	1.9	3.6	14.8	43.7	23.1	66.3	2.7	9.7
50 TO 99 EMPLOYEES . . . . .	33	2.2	21.0	1.6	3.3	13.2	34.2	19.1	53.8	.9	10.5
100 TO 249 EMPLOYEES . . . . .	30	4.8	47.8	3.3	6.6	29.8	81.2	50.4	132.4	3.6	32.6
250 TO 499 EMPLOYEES . . . . .	11	3.8	37.5	2.8	5.4	25.2	72.2	37.0	105.7	1.9	27.2
500 TO 999 EMPLOYEES . . . . .	8	7.9	83.3	5.2	9.9	47.5	155.6	89.6	240.6	11.5	62.2
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	96	.3	2.5	.2	.4	1.6	5.8	3.6	9.4	.4	2.3
3567-- INDUSTRIAL FURNACES AND OVENS											
ESTABLISHMENTS, TOTAL. . . . .	266	13.6	138.5	8.1	16.0	69.8	244.3	200.3	443.2	7.5	75.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	78	.2	1.4	.1	.2	.7	3.5	2.8	6.3	.1	.9
5 TO 9 EMPLOYEES . . . . . E5	39	.3	2.5	.2	.3	1.2	5.2	3.8	9.1	.1	1.0
10 TO 19 EMPLOYEES . . . . . E1	41	.6	6.1	.3	.7	3.0	12.8	8.8	21.1	.9	3.1
20 TO 49 EMPLOYEES . . . . .	50	1.5	15.1	.9	1.7	8.0	26.2	19.9	46.3	.5	6.3
50 TO 99 EMPLOYEES . . . . .	25	1.8	16.3	1.2	2.4	8.5	32.4	23.3	54.8	1.1	9.5
100 TO 249 EMPLOYEES . . . . .	19	3.1	32.3	1.8	3.6	16.8	55.4	49.1	103.6	1.2	15.3
250 TO 499 EMPLOYEES . . . . .	10	3.0	33.9	1.4	2.7	13.4	54.4	52.1	107.7	1.9	21.0
500 TO 999 EMPLOYEES . . . . .	3	3.2	31.0	2.2	4.4	18.3	54.3	40.7	94.4	1.7	18.6
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	77	.2	2.3	.1	.3	1.0	4.8	3.9	8.7	.2	1.3
3568-- POWER TRANSMISSION EQUIPMENT, NEC											
ESTABLISHMENTS, TOTAL. . . . .	155	27.7	266.5	20.8	42.0	183.0	544.4	340.3	876.4	20.4	207.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	4	(Z)	.3	(Z)	(Z)	.2	.4	.2	.7	.2	.2
5 TO 9 EMPLOYEES . . . . .	3	(0)	(0)	(D)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	21	.3	3.1	.2	.5	2.0	8.0	5.0	13.0	(0)	1.5
20 TO 49 EMPLOYEES . . . . .	40	1.2	11.4	.9	2.0	7.1	25.7	22.3	47.8	.8	9.1
50 TO 99 EMPLOYEES . . . . .	27	2.0	18.2	1.5	3.2	12.2	42.2	29.4	71.1	1.9	13.3
100 TO 249 EMPLOYEES . . . . .	30	4.6	41.0	3.5	7.1	27.3	83.9	55.5	135.4	3.8	32.7
250 TO 499 EMPLOYEES . . . . .	17	6.0	55.0	4.5	9.3	38.8	107.3	62.8	166.4	2.7	47.6
500 TO 999 EMPLOYEES . . . . .	9	5.9	64.6	4.2	9.0	43.6	139.1	91.6	231.5	6.7	52.7
1,000 TO 2,499 EMPLOYEES . . . . .	4	7.5	73.1	5.8	11.0	51.8	137.6	73.5	210.4	4.2	50.9

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3569-- GENERAL INDUSTRIAL MACHINERY, NEC											
ESTABLISHMENTS, TOTAL. . . . .	900	36.9	350.9	24.0	48.0	195.9	696.2	482.5	1 169.4	31.3	253.8
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E8	245	.5	8.5	.4	.6	6.7	9.5	6.2	15.5	.6	3.2
5 TO 9 EMPLOYEES . . . . . E7	135	.9	7.8	.5	1.1	4.0	17.9	12.1	29.6	.8	5.8
10 TO 19 EMPLOYEES . . . . . E2	162	2.2	21.1	1.5	3.0	12.4	42.1	29.9	71.5	1.6	11.7
20 TO 49 EMPLOYEES . . . . . E1	180	5.6	53.6	3.9	7.6	31.0	106.6	73.7	177.3	4.3	30.9
50 TO 99 EMPLOYEES . . . . .	95	6.9	65.3	4.4	9.0	36.1	142.9	97.7	236.6	4.6	47.3
100 TO 249 EMPLOYEES . . . . .	56	8.9	84.9	5.7	11.7	46.2	168.9	118.6	287.4	6.9	57.9
250 TO 499 EMPLOYEES . . . . .	20	7.3	64.2	4.4	8.8	33.3	128.2	81.3	207.5	7.4	56.2
500 TO 999 EMPLOYEES . . . . .	6	3.6	34.8	2.4	5.0	20.6	61.8	41.7	103.7	4.2	36.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	244	.9	6.8	.6	1.1	3.5	16.5	10.4	27.0	.8	5.8

Notes: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underlined figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3561	PUMPS AND PUMPING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	559	55.5	532.9	35.5	71.6	302.2	1 095.7	852.7	1 917.3	56.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	407	37.0	349.4	23.0	46.0	189.2	744.3	584.8	1 296.3	40.9
35611	INDUS. PUMPS, EXC. HYDRAULIC FLUID POWER PUMPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	119	21.9	219.4	13.4	26.9	119.4	428.8	365.5	774.6	20.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	69	8.7	85.6	5.2	10.6	43.7	192.4	154.8	325.1	8.8
35612	HYDRAULIC FLUID POWER PUMPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	45	11.8	112.9	8.3	16.7	72.5	240.7	155.2	392.9	16.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	28	3.0	28.1	2.0	4.1	16.4	65.0	37.6	97.7	7.4
35613	DOMESTIC WATER SYSTEMS, PUMPS, JACKS, CYLINDERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	38	7.3	66.0	4.6	9.3	34.6	129.6	126.9	264.9	8.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	25	2.0	16.0	1.3	2.5	7.4	45.2	47.6	93.0	4.4
35615	PUMPS AND PUMPING EQUIPMENT, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	58	7.0	65.4	4.6	9.4	38.0	140.3	109.4	244.9	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	31	2.1	18.7	1.3	2.7	10.6	36.7	26.9	63.8	1.3
35616	PARTS, ACCESSORIES FOR PUMPS, PUMPING EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	49	5.0	50.7	3.1	6.4	27.7	115.1	56.3	174.1	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	25	1.8	18.9	1.3	2.6	11.5	45.8	20.4	66.2	1.2
3562	BALL AND ROLLER BEARINGS										
	ENTIRE INDUSTRY . . . . .	135	51.0	525.5	41.4	83.4	403.7	931.3	610.4	1 530.5	51.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	125	48.1	498.3	39.3	79.4	385.3	877.3	584.1	1 453.2	50.1
35621	BALL BEARINGS, COMPLETE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	46	22.3	228.7	18.3	37.6	178.1	394.4	201.9	591.6	20.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	31	12.2	121.7	10.4	21.4	98.9	197.4	118.5	312.5	11.2
35622	TAPER, (EXCEPT THRUST) ROLLER BEARINGS, COMPLETE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	11	13.5	153.6	11.7	23.1	126.1	241.1	244.0	481.4	16.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35623	OTHER ROLLER BEARINGS, COMPLETE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	28	9.2	86.2	7.0	13.9	60.1	174.8	93.0	268.0	9.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	17	2.9	25.6	2.1	4.1	16.6	49.4	30.9	80.2	2.4
35624	MOUNTED BEARINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	7	4.1	40.7	3.1	5.9	27.9	83.9	47.7	129.6	3.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35629	PARTS, COMPONENTS, FOR BALL AND ROLLER BEARINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	17	1.6	14.9	1.3	2.6	10.4	34.1	22.4	55.4	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manuf-acture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3563	AIR AND GAS COMPRESSORS										
	ENTIRE INDUSTRY . . . . .	84	22.9	226.6	13.5	27.2	117.5	467.2	397.0	858.1	15.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	63	11.4	109.8	7.0	14.4	58.2	262.8	225.3	473.0	8.8
35631	AIR, GAS COMPRESSORS AND VACUUM PUMPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	61	18.2	177.4	10.9	21.8	92.7	361.6	319.6	673.8	14.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	42	6.7	69.5	4.2	8.6	37.9	122.3	153.9	276.1	5.3
35632	PARTS, ATTACHMENTS FOR AIR AND GAS COMPRESSORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35635	POWER PAINT-SPRAYING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	13	2.6	28.3	1.4	2.9	14.5	63.9	37.7	101.7	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3564	BLOWERS AND FANS										
	ENTIRE INDUSTRY . . . . .	396	23.4	216.2	16.0	32.0	126.5	468.8	343.2	805.2	22.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	358	15.7	139.8	10.8	21.8	83.1	290.9	216.7	502.3	14.5
35643	CENTRIFUGAL FANS AND BLOWERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	48	8.1	75.9	5.9	12.3	50.8	149.2	97.4	244.4	4.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	28	2.8	23.8	2.1	4.4	16.3	49.2	34.1	81.0	1.2
35644	PROPELLER FANS AND ACCESSORIES, AXIAL FANS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	47	4.0	35.1	2.6	5.1	18.0	67.3	50.0	115.6	3.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	34	2.7	23.1	1.7	3.3	11.0	40.7	31.4	71.1	1.7
35645	DUST, AIR-PURIFICATION EQUIP., HEATING, AIR-COND. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	51	3.7	30.7	2.7	5.3	19.2	66.0	38.3	102.4	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	44	2.6	20.7	1.8	3.6	12.1	42.7	26.1	67.9	1.7
35646	DUST, AIR-PURIFICATION EQUIP., GAS CLEANING SYS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	55	5.7	57.8	3.3	6.6	28.5	152.8	134.6	287.2	8.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	39	3.0	30.0	2.0	3.8	17.1	74.8	63.2	137.1	4.5
3565	INDUSTRIAL PATTERNS										
	ENTIRE INDUSTRY . . . . .	1 021	8.5	103.1	7.4	13.9	85.3	161.0	38.8	198.0	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	995	7.8	94.4	6.7	12.6	78.4	148.3	34.3	180.9	4.7
3566	SPEED CHANGERS, DRIVES, AND GEARS										
	ENTIRE INDUSTRY . . . . .	346	22.4	224.2	15.6	30.6	137.5	408.9	231.3	632.7	21.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	318	15.9	158.9	11.1	21.7	97.4	287.1	167.5	447.9	14.6
3567	INDUSTRIAL FURNACES AND OVENS										
	ENTIRE INDUSTRY . . . . .	266	13.6	138.5	8.1	16.0	69.8	244.3	200.3	443.2	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	229	8.3	85.3	4.5	8.8	38.2	155.0	116.8	269.0	5.2
35671	ELECTRIC INDUS. FURNACES, OVENS, METAL PROCESSING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	28	2.2	23.6	1.1	2.3	10.3	43.3	30.2	73.5	1.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	18	1.3	14.6	.7	1.5	6.9	26.8	18.7	45.4	.8
35672	FUEL-FIRED INDUS FURNACES, OVENS, METAL PROCESS'G (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	52	4.0	44.9	2.2	4.4	22.1	74.1	71.3	144.7	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	25	.6	6.6	.4	.8	3.2	12.4	8.8	20.9	.2
35673	MF INDUCTION, DIELECTRIC HEATING EQUIP., PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	64	6.2	58.8	4.1	8.1	32.3	107.2	78.7	185.1	3.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	43	2.8	27.7	1.7	3.2	13.2	50.8	36.4	87.1	1.9
3568	POWER TRANSMISSION EQUIPMENT, NEC										
	ENTIRE INDUSTRY . . . . .	155	27.7	266.5	20.8	42.0	183.0	544.4	340.3	876.4	20.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	128	20.9	200.7	15.6	31.5	137.1	421.9	254.3	663.1	15.6
35681	PLAIN BEARINGS AND BUSHINGS, UNMOUNTED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	40	3.8	34.5	3.0	5.9	23.1	61.7	42.7	105.1	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	31	1.9	17.5	1.5	2.9	11.6	32.1	20.8	53.4	1.2
35683	OTHER MECH. POWER TRANSMISSION EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	113	23.8	231.1	17.8	36.0	159.3	481.4	296.2	768.5	18.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	94	19.0	182.9	14.2	28.6	125.3	388.9	233.9	609.0	14.5
3569	GENERAL INDUSTRIAL MACHINERY, NEC										
	ENTIRE INDUSTRY . . . . .	900	36.9	350.9	24.0	48.0	195.9	696.2	482.5	1 169.4	31.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	807	26.9	254.2	17.3	35.0	139.7	514.6	336.4	842.9	23.8
35691	PACKING AND PACKAGING MACHINERY, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	104	7.8	80.7	5.0	10.2	44.9	146.0	83.3	228.8	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	77	4.1	43.4	2.6	5.3	24.1	76.8	50.6	125.8	3.8
35692	FILTERS AND STRAINERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	84	9.1	78.1	5.9	11.6	41.6	170.2	119.3	286.7	12.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	68	6.4	53.3	4.2	8.5	28.5	117.9	70.9	187.0	9.6
35699	ALL OTHER GENERAL INDUSTRIAL MACHINERY, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	230	14.9	147.9	9.6	19.4	83.0	293.6	224.2	512.3	8.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	168	9.5	95.3	6.0	12.4	52.9	195.1	135.0	328.3	6.0

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3561	Pumps and pumping equipment: (New SIC basis).....1972..	1,917.3	1,408.1	296.1	213.1	83	1,632.9	1,408.1	224.8	86
	(Old SIC basis).....1972..	2,775.4	2,057.8	430.8	286.8	83	2,355.6	2,057.8	297.8	87
	(Old SIC basis).....1967..	2,207.5	1,704.9	265.4	237.2	87	1,947.5	1,704.9	242.6	88
3562	Ball and roller bearings.....1972..	1,530.5	1,398.8	86.8	44.9	94	1,418.7	1,398.8	19.9	99
	.....1967..	1,328.5	1,259.9	35.5	33.1	97	1,292.2	1,259.9	32.3	97
3563	Air and gas compressors.....1972..	858.1	649.7	134.7	73.7	83	722.7	649.7	73.0	90
3564	Blowers and fans.....1972..	805.2	571.2	151.7	82.3	79	682.0	571.2	110.8	84
	.....1967..	525.2	410.5	71.5	43.2	85	499.1	410.5	88.6	82
3565	Industrial patterns.....1972..	198.0	183.6	10.3	4.1	95	234.4	183.6	50.8	78
	.....1967..	201.8	186.0	7.9	7.9	96	233.7	186.0	47.7	80
3566	Speed changers, drives, and gears: (New SIC basis).....1972..	632.7	525.6	72.3	34.8	88	593.0	525.6	67.4	89
	(Old SIC basis).....1972..	1,509.1	1,244.6	179.1	85.4	87	1,568.0	1,244.6	323.4	79
	(Old SIC basis).....1967..	1,263.4	1,060.3	116.7	86.4	90	1,283.4	1,060.3	223.1	83
3567	Industrial furnaces and ovens.....1972..	443.2	311.5	85.4	46.3	78	341.1	311.5	29.6	91
	.....1967..	495.7	365.6	54.0	76.1	87	415.9	365.6	50.3	88
3568	Power transmission equipment, n.e.c.....1972..	876.4	719.0	106.8	50.6	87	975.0	719.0	256.0	74
3569	General industrial machinery, n.e.c.....1972..	1,169.4	922.7	163.0	83.7	85	1,132.8	922.7	210.1	81
	.....1967..	901.2	712.5	121.3	67.4	85	899.8	712.5	187.3	79

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Pumps and pumping equipment (SIC 3561)	Ball and roller bearings (SIC 3562)	Air and gas compressors (SIC 3563)	Blowers and fans (SIC 3564)	Industrial patterns (SIC 3565)	Speed changers, drives, and gears (SIC 3566)	Industrial furnaces and ovens (SIC 3567)	Power transmission equipment, n.e.c. (SIC 3568)	General industrial machinery, n.e.c. (SIC 3569)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,917.3	1,530.5	858.1	805.2	198.0	632.7	443.2	876.4	1,169.4	(X)
3561	Pumps and pumping equipment...	1,632.9	1,408.1	-	(over 2)	(under 2)	-	(under 2)	(under 2)	-	(over 2)	203.1
35611	Industrial pumps, except hydraulic fluid power pumps..	611.9	536.2	-	(under 2)	-	-	-	-	-	-	(over 2)
35612	Hydraulic fluid power pumps, motors, vacuum pumps.....	261.6	224.3	-	-	-	-	(under 2)	-	-	(under 2)	(over 2)
35613	Domestic water system and pumps, jacks, and cylinders.	151.1	138.4	-	(under 2)	(under 2)	-	-	-	-	-	(over 2)
35615	Pumps and pumping equipment, n.e.c.....	186.4	150.3	-	(over 2)	(under 2)	-	-	(under 2)	-	(over 2)	18.7
35616	Parts and attachments for pumps and compressors.....	346.5	287.6	-	(over 2)	-	-	(under 2)	-	-	(under 2)	56.3
35610	Pumps and compressors, n.s.k.	75.4	71.3	-	(under 2)	-	-	-	-	-	(under 2)	3.6

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Pumps and pumping equipment (SIC 3561)	Ball and roller bearings (SIC 3562)	Air and gas compressors (SIC 3563)	Blowers and fans (SIC 3564)	Industrial patterns (SIC 3565)	Speed changers, drives, and gears (SIC 3566)	Industrial furnaces and ovens (SIC 3567)	Power transmission equipment, n.e.c. (SIC 3568)	General industrial machinery, n.e.c. (SIC 3569)	Other industries
	Shipments and miscellaneous receipts--Continued											
3562	Ball and roller bearings.....	1,418.7	-	1,398.8	-	-	-	(under 2)	-	11.1	-	(over 2)
35621	Ball bearings, complete.....	474.2	-	466.4	-	-	-	-	-	(under 2)	-	(over 2)
35622	Taper (except thrust) roller bearings, complete.....	420.0	-	420.0	-	-	-	-	-	-	-	-
35623	Other roller bearings, complete.....	280.9	-	277.7	-	-	-	-	-	(2-5)	-	(over 2)
35624	Mounted bearings.....	100.9	-	93.3	-	-	-	(under 2)	-	(over 2)	-	-
35629	Parts and components for ball and roller bearings.....	138.2	-	137.0	-	-	-	-	-	-	-	1.2
35620	Ball and roller bearings, n.s.k.....	4.5	-	4.4	-	-	-	-	-	-	-	.1
3563	Air and gas compressors.....	722.7	31.6	-	649.7	-	-	-	-	-	(under 2)	(over 2)
35631	Air and gas compressors and vacuum pumps.....	480.8	20.5	-	427.7	-	-	-	-	-	(under 2)	(over 2)
35632	Parts and attachments for air and gas compressors.....	148.4	11.1	-	128.5	-	-	-	-	-	-	8.8
35635	Industrial spraying equipment.....	93.5	-	-	93.5	-	-	-	-	-	-	-
3564	Blowers and fans.....	682.0	-	-	(over 2)	571.2	-	-	(under 2)	-	(over 2)	102.3
35643	Centrifugal fans and blowers.....	181.0	-	-	(over 2)	167.2	-	-	-	-	-	(over 2)
35644	Propeller fans and accessories, axial fans, etc....	159.9	-	-	(under 2)	125.9	-	-	-	-	-	(over 2)
35645	Dust collection equipment for air-conditioning systems...	121.3	-	-	-	85.0	-	-	(under 2)	-	(over 2)	(over 2)
35646	Dust collection equipment for gas cleaning systems.....	198.0	-	-	(under 2)	171.5	-	-	(under 2)	-	-	(over 2)
35640	Blowers and fans, n.s.k.....	21.8	-	-	-	21.6	-	-	-	-	-	.2
35650	Industrial patterns, except shoe patterns.....	234.4	-	-	-	-	183.6	-	-	-	-	50.8
35660	Speed changers, industrial high-speed drives, and gears, n.s.k.	593.0	(under 2)	-	-	-	-	525.6	-	(over 2)	-	51.5
3567	Industrial furnaces and ovens.....	341.1	-	-	-	-	-	-	311.5	-	1.8	27.8
35671	Electrical industrial furnaces and ovens, metal processing.....	67.5	-	-	-	-	-	-	61.4	-	(under 2)	(over 2)
35672	Fuel-fired industrial furnaces and ovens, metal processing.....	97.2	-	-	-	-	-	-	90.3	-	(under 2)	(over 2)
35673	High-frequency induction dielectric heating equipment and parts.....	147.0	-	-	-	-	-	-	130.8	-	(under 2)	(over 2)
35670	Industrial furnaces and ovens, n.s.k.....	29.4	-	-	-	-	-	-	29.0	-	(under 2)	(under 2)
3568	Power transmission equipment, n.e.c.....	975.0	(over 2)	36.1	-	(5-10)	-	43.8	-	719.0	(over 2)	160.5
35681	Plain bearings and bushings, unmounted.....	121.0	(over 2)	(over 2)	-	-	-	(2-5)	-	75.3	-	20.2
35683	Other mechanical power transmission equipment.....	854.0	(2-5)	(10-20)	-	(5-10)	-	(over 2)	-	643.7	(over 2)	140.3
3569	General industrial machinery, n.e.c.....	1,132.8	4.9	-	(over 2)	(under 2)	-	-	9.3	-	922.7	193.0
35691	Packing and packing machinery, n.e.c.....	177.4	-	-	-	-	-	-	-	-	155.4	22.0
35692	Filters and strainers.....	275.4	-	-	-	(under 2)	-	-	(under 2)	-	226.8	47.6
35699	All other general industrial machinery, n.e.c.....	535.5	4.7	-	(under 2)	-	-	-	7.1	-	401.2	122.0
35690	General industrial machinery, n.e.c.....	144.5	(under 2)	-	(under 2)	(under 2)	-	-	(under 2)	-	139.3	1.4
	Other product shipments by 4-digit product group:											
2899	Chemical preparations, n.e.c.	(X)	-	-	-	-	-	-	(under 2)	-	(2-5)	(X)
3079	Miscellaneous plastics products.....	(X)	(2-5)	(under 2)	-	1.7	(2-5)	-	(under 2)	-	-	(X)
3229	Pressed and blown glass, n.e.c.	(X)	-	-	-	(5-10)	-	-	-	-	-	(X)
3321	Gray iron foundries.....	(X)	-	(under 2)	(under 2)	(under 2)	.3	2.3	-	(under 2)	(under 2)	(X)
3322	Malleable iron foundries....	(X)	-	-	-	-	-	-	-	(over 2)	-	(X)
3325	Steel foundries, n.e.c.....	(X)	(under 2)	(under 2)	-	-	-	(over 2)	-	-	-	(X)
3341	Secondary nonferrous metals.....	(X)	-	-	-	-	-	-	-	(over 2)	(under 2)	(X)
3351	Copper rolling and drawing..	(X)	-	-	-	-	-	-	-	(over 2)	-	(X)
3357	Nonferrous wire drawing and insulating.....	(X)	-	-	-	-	-	-	-	-	-	(X)
3361	Aluminum foundries.....	(X)	(over 2)	-	(under 2)	-	2.3	-	-	-	-	(X)
3362	Brass, bronze, and copper foundries.....	(X)	(under 2)	-	-	-	-	(under 2)	-	2.3	-	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Pumps and pumping equipment (SIC 3561)	Ball and roller bearings (SIC 3562)	Air and gas compressors (SIC 3563)	Blowers and fans (SIC 3564)	Industrial patterns (SIC 3565)	Speed changers, drives, and gears (SIC 3566)	Industrial furnaces and ovens (SIC 3567)	Power transmission equipment, n.e.c. (SIC 3568)	General industrial machinery, n.e.c. (SIC 3569)	Other industries
	Shipments and miscellaneous receipts--Continued											
	Other product shipments by 4-digit product group:											
3423	Hand and edge tools, n.e.c..	(X)	-	-	-	-	-	(under 2)	(under 2)	-	6.6	(X)
3429	Hardware, n.e.c.....	(X)	2.5	(under 2)	-	-	-	-	-	(under 2)	(under 2)	(X)
3433	Heating equipment, except electric.....	(X)	-	-	(under 2)	9.8	-	-	1.9	-	(under 2)	(X)
3443	Fabricated platework (boiler shops).....	(X)	(5-10)	-	(under 2)	2.4	-	-	1.6	-	4.2	(X)
3444	Sheet metalwork.....	(X)	(under 2)	-	-	4.0	-	-	(under 2)	-	(under 2)	(X)
3494	Valves and pipe fittings....	(X)	92.5	-	(under 2)	1.9	-	(under 2)	(under 2)	-	18.2	(X)
3498	Fabricated pipe and fittings.	(X)	(over 2)	-	-	(under 2)	-	-	-	(under 2)	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	(over 2)	-	(under 2)	-	(under 2)	(under 2)	(under 2)	(5-10)	(X)
3511	Turbines and turbine generator sets.....	(X)	(under 2)	-	(over 2)	(under 2)	-	-	(over 2)	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	(under 2)	-	69.5	(under 2)	-	-	-	-	-	(X)
3523	Farm machinery and equipment.	(X)	(2-5)	-	-	-	-	-	(under 2)	(under 2)	(2-5)	(X)
3531	Construction machinery.....	(X)	1.9	-	(under 2)	-	-	(under 2)	(under 2)	(under 2)	(5-10)	(X)
3532	Mining machinery.....	(X)	(2-5)	-	8.1	(over 2)	-	-	-	-	2.3	(X)
3535	Conveyors and conveying equipment.....	(X)	-	-	-	4.9	-	-	(under 2)	8.1	(under 2)	(X)
3536	Hoists, cranes, and monorails.	(X)	-	-	(over 2)	-	-	-	-	(under 2)	(under 2)	(X)
3542	Machine tools, metal-forming types.....	(X)	-	-	-	(over 2)	-	-	(under 2)	-	(under 2)	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	(under 2)	(under 2)	-	-	1.7	-	(under 2)	-	2.4	(X)
3549	Metalworking machinery, n.e.c.	(X)	(under 2)	-	-	-	-	-	-	-	(2-5)	(X)
3551	Food products machinery.....	(X)	(under 2)	-	-	(under 2)	-	(under 2)	(under 2)	-	6.3	(X)
3552	Textile machinery.....	(X)	-	-	-	-	-	(under 2)	-	(over 2)	-	(X)
3554	Paper industries machinery..	(X)	-	-	-	(under 2)	-	-	-	-	(2-5)	(X)
3559	Special industry machinery, n.e.c.....	(X)	(10-20)	(under 2)	(over 2)	(10-20)	-	-	10.7	-	23.7	(X)
3585	Refrigeration and heating equipment.....	(X)	6.5	-	(under 2)	(20-50)	-	-	(over 2)	-	-	(X)
3586	Measuring and dispensing pumps.	(X)	(2-5)	-	-	-	-	(over 2)	-	-	-	(X)
3589	Service industry machinery, n.e.c.....	(X)	7.1	-	-	5.8	-	-	(under 2)	-	28.8	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	23.0	-	-	-	1.0	(under 2)	-	(under 2)	2.4	(X)
3621	Motors and generators.....	(X)	(10-20)	-	(over 2)	(over 2)	-	6.9	(under 2)	-	-	(X)
3622	Industrial controls.....	(X)	-	-	-	(over 2)	-	-	(under 2)	-	(under 2)	(X)
3631	Household cooking equipment.	(X)	-	-	-	(over 2)	-	-	(over 2)	-	-	(X)
3634	Electric housewares and fans.	(X)	(under 2)	-	-	(under 2)	-	-	(10-20)	-	-	(X)
3639	Household appliances, n.e.c.	(X)	-	-	-	(under 2)	-	-	(over 2)	-	(under 2)	(X)
3643	Current-carrying wiring devices.....	(X)	(under 2)	-	-	(over 2)	-	-	-	-	-	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	-	-	-	-	-	-	-	(over 2)	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	(over 2)	(over 2)	(over 2)	-	-	(under 2)	(under 2)	38.2	-	(X)
3724	Aircraft engines and engine parts.....	(X)	(over 2)	-	-	-	-	(under 2)	-	(under 2)	-	(X)
3731	Shipbuilding and repairing..	(X)	(over 2)	-	-	-	-	-	-	-	-	(X)
3743	Railroad equipment.....	(X)	(under 2)	-	-	(over 2)	-	-	(under 2)	(over 2)	-	(X)
3751	Motorcycles, bicycles, and parts.....	(X)	-	-	-	-	-	-	-	-	(over 2)	(X)
3824	Fluid meters and counting devices.....	(X)	(2-5)	-	-	-	-	(under 2)	-	(under 2)	-	(X)
3841	Surgical and medical instruments.....	(X)	(over 2)	-	-	-	-	-	-	-	-	(X)
3949	Sporting and athletic goods, n.e.c.....	(X)	(under 2)	-	-	-	-	-	-	-	(over 2)	(X)
93000 00	Miscellaneous receipts.....	(X)	213.1	44.9	73.7	82.3	4.1	34.8	46.3	50.6	83.7	(X)
99980 13	Contract work.....	(X)	7.1	2.6	1.9	3.3	1.2	7.2	10.1	1.4	15.8	(X)
99980 31	Sales of scrap and refuse...	(X)	-	8.3	3.0	1.9	(under 2)	(under 2)	.4	2.1	.5	(X)
	Receipts for installation (or construction) of products of this establishment.....	(X)	9.9	-	-	-	-	-	6.6	-	2.2	(X)
99980 41	Receipts for research and developmental work.....	(X)	.2	(under 2)	-	-	-	-	-	-	1.5	(X)
99980 61	Receipts for repair work....	(X)	78.5	-	33.4	-	.9	(under 2)	12.8	-	9.4	(X)
99980 98	Other miscellaneous receipts.	(X)	7.5	(under 2)	2.2	21.7	(under 2)	4.2	1.9	3.5	7.1	(X)
99989 00	Resales.....	(X)	109.9	32.8	33.2	55.4	1.3	22.3	14.5	43.6	47.2	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3561	3264 Porcelain electrical supplies.....	(over 2)	3565	3325 Steel foundries, n.e.c.....	7.4
	3321 Gray iron foundries.....	(over 2)	3361	Aluminum foundries.....	11.3
	3423 Hand and edge tools, n.e.c.....	(over 2)			
	3433 Heating equipment, except electric.....	(2-5)	3566	3494 Valves and pipe fittings.....	(2-5)
	3483 Ammunition, except for small arms, n.e.c.....	(over 2)		3511 Turbines and turbine generator sets.....	(5-10)
	3494 Valves and pipe fittings.....	26.1		3533 Oil field machinery.....	(10-20)
				3547 Rolling mill machinery.....	(over 2)
	3511 Turbines and turbine generator sets.....	(5-10)		3621 Motors and generators.....	(20-50)
	3523 Farm machinery and equipment.....	3.9		3728 Aircraft equipment, n.e.c.....	(2-5)
	3531 Construction machinery.....	6.5			
	3532 Mining machinery.....	(5-10)	3567	3444 Sheet metalwork.....	(2-5)
	3533 Oil field machinery.....	23.5		3494 Valves and pipe fittings.....	(over 2)
	3541 Machine tools, metal-cutting types.....	(2-5)		3536 Hoists, cranes, and monorails.....	(over 2)
	3542 Machine tools, metal-forming types.....	2.3		3559 Special industry machinery, n.e.c.....	7.5
				3623 Welding apparatus, electric.....	(2-5)
	3553 Woodworking machinery.....	(5-10)			
	3559 Special industry machinery, n.e.c.....	3.5	3568	3321 Gray iron foundries.....	(2-5)
	3586 Measuring and dispensing pumps.....	22.0		3362 Brass, bronze, and copper foundries.....	(5-10)
	3589 Service industry machinery, n.e.c.....	9.6		3432 Plumbing fittings and brass goods.....	(over 2)
				3535 Conveyors and conveying equipment.....	(2-5)
	3621 Motors and generators.....	28.5		3546 Power-driven handtools.....	(over 2)
	3714 Motor vehicle parts and accessories.....	2.4		3559 Special industry machinery, n.e.c.....	(2-5)
	3724 Aircraft engines and engine parts.....	(over 2)		3585 Refrigeration and heating equipment.....	(10-20)
	3728 Aircraft equipment, n.e.c.....	3.6		3714 Motor vehicle parts and accessories.....	22.1
	3743 Railroad equipment.....	(over 2)		3724 Aircraft engines and engine parts.....	(over 2)
	3822 Environmental controls.....	(over 2)			
3562	3452 Bolts, nuts, rivets, and washers.....	(over 2)	3569	2643 Bags, except textile bags.....	(2-5)
3563	3041 Rubber and plastics hose and belting.....	4.3		2751 Commercial printing, letterpress.....	(2-5)
	3443 Fabricated platework (boiler shops).....	(2-5)		2899 Chemical preparations, n.e.c.....	(10-20)
	3494 Valves and pipe fittings.....	4.4		3312 Blast furnaces and steel mills.....	(over 2)
	3511 Turbines and turbine generators sets.....	(over 2)		3322 Malleable iron foundries.....	(over 2)
	3519 Internal combustion engines, n.e.c.....	(5-10)		3325 Steel foundries, n.e.c.....	(over 2)
	3531 Construction machinery.....	(5-10)			
	3559 Special industry machinery, n.e.c.....	(over 2)		3432 Plumbing fittings and brass goods.....	(2-5)
	3586 Measuring and dispensing pumps.....	(2-5)		3433 Heating equipment, except electric.....	(5-10)
	3811 Engineering and scientific instruments.....	(over 2)		3441 Fabricated structural metal.....	3.7
3564	3296 Mineral wool.....	(10-20)		3443 Fabricated platework (boiler shops).....	13.0
	3432 Plumbing fittings and brass goods.....	(over 2)		3444 Sheet metalwork.....	5.6
	3433 Heating equipment, except electric.....	8.7		3494 Valves and pipe fittings.....	17.2
	3443 Fabricated platework (boiler shops).....	2.8		3499 Fabricated metal products, n.e.c.....	5.8
	3444 Sheet metalwork.....	2.8			
	3446 Architectural metalwork.....	(over 2)		3523 Farm machinery and equipment.....	(10-20)
	3448 Prefabricated metal buildings.....	(2-5)		3536 Hoists, cranes, and monorails.....	8.0
				3542 Machine tools, metal-forming types.....	(2-5)
	3535 Conveyors and conveying equipment.....	(2-5)		3546 Power-driven handtools.....	(over 2)
	3559 Special industry machinery, n.e.c.....	(10-20)		3551 Food products machinery.....	4.7
	3561 Pumps and pumping equipment.....	(5-10)		3554 Paper industries machinery.....	(2-5)
	3585 Refrigeration and heating equipment.....	10.0		3559 Special industry machinery, n.e.c.....	28.5
	3634 Electric housewares and fans.....	(2-5)			
	3842 Surgical appliances and supplies.....	(over 2)		3582 Commercial laundry equipment.....	(over 2)
3565	3321 Gray iron foundries.....	16.1		3585 Refrigeration and heating equipment.....	3.3
	3322 Malleable iron foundries.....	3.3		3586 Measuring and dispensing pumps.....	9.3
				3589 Service industry machinery, n.e.c.....	5.3
				3599 Machinery, except electrical, n.e.c.....	5.5
				3861 Photographic equipment and supplies.....	(over 2)
				3999 Manufacturing industries, n.e.c.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3561- --	PUMPS AND PUMPING EQUIPMENT.....		(X)	1,632.9	(X)	1,332.6
	Industrial Pumps, Except Fluid Power Pumps: <sup>1</sup>					
35611 --	As reported in the census of manufactures.....		(X)	611.9	(X)	436.9
	As reported in Current Industrial Reports series MA-35P.....		(X)	615.5	(X)	448.7
	Value of drivers (reported separately) <sup>2</sup> .....		(X)	113.2	(X)	89.9
	Reciprocating pumps:					
35611 01	Direct-acting steam-driven.....	1,000.....	1.1	2.3	1.5	2.8
35611 03	Power-operated, other than steam.....	..do.....	188.7	52.7	141.6	38.5
	Turbine pumps, vertical (including deep-well).....	..do.....	40.3	65.4	27.9	45.3
35611 05	Submersible, over 5 hp.....	..do.....	11.9	13.1	(NA)	(NA)
	Other than submersible:					
35611 09	16" diameter bowl size and under.....	..do.....	25.4	43.8	(NA)	(NA)
35611 10	Over 16" diameter bowl size.....	..do.....	3.1	8.6	(NA)	(NA)
	Centrifugal pumps.....	..do.....	1,497.6	308.0	989.5	216.9
	Single stage, single suction, close coupled:					
35611 11	1/2" discharge outlet and under.....	..do.....	6.7	.5	39.4	1.5
35611 12	3/4" and 1" discharge outlet.....	..do.....	127.7	8.2	143.4	7.3
35611 14	1-1/4" and 1-1/2" discharge outlet.....	..do.....	251.5	15.5	138.5	11.1
35611 15	2" and 2-1/2" discharge outlet.....	..do.....	81.4	10.7	50.7	6.4
35611 16	3" and 4" discharge outlet.....	..do.....	47.2	11.1	28.4	8.4
35611 19	Over 4" discharge outlet.....	..do.....	7.1	7.4	8.5	5.6
	Single stage, single suction, frame mounted:					
35611 21	1/2" discharge outlet and under.....	..do.....	174.2	11.4	18.5	.5
35611 22	3/4" and 1" discharge outlet.....	..do.....			44.4	6.6
35611 23	1-1/4" and 1-1/2" discharge outlet.....	..do.....			43.8	9.8
35611 24	2" and 2-1/2" discharge outlet.....	..do.....			34.0	11.8
35611 25	3" discharge outlet.....	..do.....			21.5	9.9
35611 26	4" to 6" discharge outlet.....	..do.....			22.1	16.6
35611 29	Over 6" discharge outlet.....	..do.....	4.2	11.3	3.8	10.1
	Single stage, double suction:					
35611 42	Under 4" discharge outlet.....	..do.....	9.4	4.1	10.2	3.6
35611 44	4" and 5" discharge outlet.....	..do.....	6.1	6.1	6.7	6.1
35611 46	6" and 7" discharge outlet.....	..do.....	3.5	5.5	3.2	4.2
35611 48	8" and 12" discharge outlet.....	..do.....	3.0	9.3	2.5	7.0
35611 49	Over 12" discharge outlet.....	..do.....	.5	8.1	.7	6.9
	Multistage (single or double suction):					
35611 52	1-1/2" discharge outlet and under.....	..do.....	8.8	3.9	14.7	2.6
35611 54	2" and 3" discharge outlet.....	..do.....	5.0	13.9	5.2	10.4
35611 56	4" and 5" discharge outlet.....	..do.....	1.2	9.1	2.3	8.0
35611 58	6" and 7" discharge outlet.....	..do.....	.3	5.7	1.1	5.5
35611 59	8" and over discharge outlet.....	..do.....	.4	14.6	1.2	17.5
	Propeller and mixed flow:					
35611 62	20" and under.....	..do.....	1.8	4.0	2.0	4.2
35611 64	Over 20".....	..do.....	.6	11.3	.5	6.0
	All other centrifugal pumps (including can, etc.):					
35611 65	1-1/2" discharge outlet and under.....	..do.....	600.0	12.0	314.4	6.1
35611 66	2" to 6" discharge outlet.....	..do.....	27.8	12.8	25.9	9.6
35611 69	Over 6" discharge outlet.....	..do.....	.5	44.6	2.0	13.6
	Rotary pumps.....	..do.....	896.4	65.3	736.8	47.0
	100 p.s.i. and under, designed pressure:					
35611 70	10 g.p.m. and under, designed capacity.....	..do.....	406.9	10.8	231.9	6.6
35611 71	11-99 g.p.m., designed capacity.....	..do.....	110.3	12.4	174.3	15.4
35611 72	100-299 g.p.m., designed capacity.....	..do.....	72.2	4.4		
35611 73	300 g.p.m. and over, designed capacity.....	..do.....	2.5	1.6	2.6	1.6
	101-250 p.s.i., designed pressure:					
35611 74	10 g.p.m. and under, designed capacity.....	..do.....	153.5	6.1	215.6	13.6
35611 75	11-99 g.p.m., designed capacity.....	..do.....	52.7	10.7		
35611 76	100 g.p.m. and over, designed capacity.....	..do.....	14.2	6.7		
	251-500 p.s.i., designed pressure:					
35611 77	10 g.p.m. and under, designed capacity.....	..do.....	63.5	1.9	105.7	7.4
35611 78	11 g.p.m. and over, designed capacity.....	..do.....	15.9	6.0		
35611 79	Over 500 p.s.i., designed pressure.....	..do.....	4.9	4.6		
35611 98	Other industrial pumps.....	..do.....	46.9	8.5	48.4	8.3
	Hydraulic Fluid Power Pumps: <sup>1</sup>					
35612 --	As reported in the census of manufactures.....		(X)	261.6	(X)	<sup>3</sup> 218.6
	As reported in Current Industrial Reports series MA-35P.....		(X)	259.2	(X)	181.6
	Value of drivers (reported separately) <sup>2</sup> .....		(X)	6.1	(X)	9.4
35612 81	Gear type.....	1,000.....	2,103.7	122.2	1,385.1	60.0
35612 83	Vane type.....	..do.....	490.5	48.9	427.3	38.5
	Piston type:					
35612 85	Axial.....	..do.....	318.8	75.0	187.7	58.6
35612 87	Rotary or radial.....	..do.....	6.6	6.9	15.3	15.1

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3561- --	PUMPS AND PUMPING EQUIPMENT--Continued					
	Domestic Water Systems and Pumps, Including Pump Jacks and Cylinders: <sup>1</sup>					
35613 --	As reported in the census of manufactures.....		(X)	151.1	(X)	97.7
	As reported in Current Industrial Report series MA-35P.....	1,000.....	1,555.5	140.9	(NA)	(NA)
	Domestic water systems:					
35613 13	Jet pump and convertible jet pump systems.....	...do.....	822.7	<sup>5</sup> 60.5	(NA)	(NA)
35613 20	Nonjet pump systems (except submersible).....	...do.....	78.9	<sup>5</sup> 6.7	(NA)	(NA)
35613 25	Submersible pump systems, 5 hp. and under.....	...do.....	573.9	<sup>5</sup> 72.4	(NA)	(NA)
35613 70	Domestic hand and windmill pumps, pump jacks, and cyclinders (sold separately).....	...do.....	80.0	<sup>5</sup> 1.3	(NA)	(NA)
35615 --	Pumps and Pumping Equipment, N.E.C.....		(X)	186.4	(X)	126.2
	Products included in the census of manufactures and on Census Annual Form MA-35P: <sup>1 6</sup>					
35615 10,19	As reported in the census of manufactures.....		(X)	178.8	(X)	120.2
	As reported in Current Industrial Reports series MA-35P.....	1,000.....	(NA)	163.3	(NA)	107.4
	Value of drivers (reported separately) <sup>2</sup> .....		(X)	22.0	(X)	19.9
	Oil-well and oilfield pumps, except boiler feed:					
35615 11	Subsurface pumps for oil-well pumping.....	1,000.....	(NA)	22.2	42.0	32.7
35615 13	Slush pumps.....	...do.....	.2	14.3	.2	7.2
35615 15	Other oil-well oilfield pumps.....	...do.....	(NA)	14.0	1.1	4.5
	Domestic sump pumps: <sup>6</sup>					
35615 73	Pedestal.....	...do.....	288.4	8.6	2,179.3	43.0
35615 76	Submersible.....	...do.....	271.3	13.1		
35615 96	Other pumps (except automotive) such as oil burner and appliance pumps, fire engine pumps, laboratory pumps, sump pumps, etc.....	...do.....	2,907.3	69.0		
35615 00	Pumps and pumping equipment, n.e.c., n.s.k.....		(X)	7.6	(X)	6.0
35616 13	Parts and attachments for pumps and pumping equipment, except for air and gas compressors.....		(X)	346.5	(X)	<sup>7</sup> 383.6
35610 00	Pumps and compressors, n.s.k., for companies with 10 employees or more. (See note.).....		(X)	54.1	(X)	<sup>8</sup> 60.3
35610 02	Pumps and compressors, n.s.k., for companies with less than 10 employees. (See note.).....		(X)	21.3	(X)	9.3
3562- --	BALL AND ROLLER BEARINGS, TOTAL.....		(X)	1,418.7	(X)	1,292.2
35621 --	Ball Bearings, Complete.....		(X)	474.2	(X)	472.7
	Annular, including self-aligning:					
	Ground or precision:					
	Single row conrad:					
	Miniature (below 9 mm. O.D.):					
35621 01	Regular (BEC 1 and 3).....	Million units.	32.3	35.2	4.1	3.8
35621 0	Precision (BEC 5 and up).....	...do.....			6.7	15.8
	Other:					
	Regular:					
35621 03	9 mm. O.D. to 30 mm. O.D.....	...do.....	47.5	32.7	198.6	228.5
35621 04	Over 30 mm. O.D. to 52 mm. O.D.....	...do.....	68.8	62.7		
35621 05	Over 52 mm. O.D. to 100 mm. O.D.....	...do.....	38.1	78.7		
35621 07	Over 100 mm. O.D.....	...do.....	3.6	34.1		
35621 08	Precision (BEC 5 and up).....	...do.....	(NA)	29.7	7.2	56.6
35621 14	Single row maximum capacity type.....	...do.....	6.5	22.5	11.7	30.3
35621 16	Double row.....	...do.....	6.1	43.7	17.1	38.2
35621 18	Angular contact.....	...do.....	3.8	18.0	5.9	22.5
35621 19	All other ground or precision bearings (BEC 1 and up).....	...do.....	(NA)	36.9	18.8	28.7
35621 25	Unground, including self-aligning (less than BEC 1).....	...do.....	(NA)	13.3	89.5	9.5
	Thrust:					
35621 33	Ground.....	...do.....	(NA)	13.2	9.0	14.6
35621 35	Unground.....	...do.....	3.9	5.8	(NA)	3.5
35621 51	Other ball bearings.....	...do.....	23.5	43.0	(NA)	14.9
35621 00	Ball bearings, complete, n.s.k.....		(X)	4.7	(X)	5.8
35622 31	Taper (except thrust) roller bearings, complete, including finished cups and cones shipped separately.....	Million units.	(NA)	420.0	(NA)	367.7

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3562- --	BALL AND ROLLER BEARINGS--Continued					
35623 --	Other Roller Bearings, Complete.....		(X)	280.9	(X)	225.0
	Cylindrical, except thrust:					
35623 13	Regular (BEC 1 and 3).....	Million units.	(NA)	104.8	41.5	88.4
35623 15	Precision (BEC 5 and up).....	do.	1.8	13.6	1.5	10.8
	Spherical, including hourglass and barrel but excluding thrust:					
35623 23	Single row.....	do.	1.7	9.3	2.1	10.0
35623 27	Double row.....	do.	.7	50.5	.8	40.2
35623 41	Needle.....	do.	46.1	53.1	98.7	36.4
35623 53	Thrust (all types).....	do.	28.0	39.4	47.9	25.0
35623 98	Other roller bearings.....	do.	(NA)	10.2	12.2	14.1
35624 --	Mounted Bearings <sup>9</sup> .....		(X)	100.9	(X)	95.9
35624 17	Ball bearings, unit and/or split mounted.....	Million units.	10.6	57.9	15.5	57.9
	Roller:					
35624 53	Unit mounted.....	do.	3.0	42.8	(NA)	36.7
35624 55	Split mounted.....	do.				
35624 00	Mounted bearings, n.s.k.....		(X)	.2	(X)	1.3
35629 --	Parts and Components for Ball and Roller Bearings, Including Balls and Rollers, Sold Separately.....		(X)	138.2	(X)	118.7
35629 11	Balls.....	Million units.	6.0	32.0	(NA)	66.9
35629 31	Rollers.....	do.	(NA)	26.4	6.2	22.4
35629 21	Other antifriction ball bearing components and parts, including unassembled ball bearings, cages, housing closures, collars, races, etc.....		(X)	18.8		
35629 41	Other antifriction roller bearing components and parts, including unassembled roller bearings, cages, housing closures, collars, races, etc.....		(D)	59.8	(X)	29.3
35629 00	Parts and components for ball and roller bearings, including balls and rollers sold separately, n.s.k.....		(X)	1.2	(X)	.2
35620 00	Ball and roller bearings, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	3.4	(X)	11.3
35620 02	Ball and roller bearings, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	1.1	(X)	.8
3563- --	AIR AND GAS COMPRESSORS.....		(X)	722.7	(X)	7572.3
35631 --	Air and Gas Compressors and Vacuum Pumps.....		(X)	480.8	(X)	10501.0
35631 10	Air and gas compressors, except refrigeration compressors: <sup>1</sup>					
	As reported in the census of manufactures.....		(X)	430.4	(X)	501.0
	As reported in Current Industrial Reports series MA-35P.....	1,000.....	962.5	437.0	494.7	469.1
	Value of drivers (reported separately).....	do.	(X)	42.0	(X)	48.1
	Air compressors.....	do.	604.0	212.0	282.8	217.4
	Stationary.....	do.	323.1	148.7	203.8	155.8
35631 11	1-1/2 hp. and under.....	do.	218.5	18.5	121.3	10.5
35631 12	Over 1-1/2-5 hp.....	do.	58.6	18.4	48.0	15.3
35631 13	Over 5-15 hp.....	do.	29.1	22.6	19.9	16.7
35631 15	16-100 hp.....	do.	14.4	49.6	12.1	54.4
35631 16	101-250 hp.....	do.	1.9	20.5	1.8	25.6
35631 17	251-1,000 hp.....	do.	.5	12.1	.6	20.8
35631 19	Over 1,000 hp.....	do.	.1	7.1	(Z)	12.3
	Portable.....	do.	281.0	63.3	79.0	61.6
35631 31	Under 75 c.f.m.....	do.	268.6	12.4	69.1	8.7
35631 32	75-150 c.f.m.....	do.	6.4	14.4	6.8	20.4
35631 33	151-400 c.f.m.....	do.	4.1	14.0	1.9	11.9
35631 35	Over 400 c.f.m.....	do.	1.9	22.6	1.2	20.6
35631 41	Gas compressors.....	do.	2.7	113.4	4.2	191.6
	Centrifugal and axial.....	do.	.1	22.7	.5	50.3
	Reciprocating and rotary.....	do.	2.6	90.7	3.7	141.3
	Integral diesel, or gas-engine powered (reciprocating):					
35631 52	250 hp. and under.....	do.	.2	57.2	(Z)	56.3
35631 55	251-1,000 hp.....	do.			(Z)	514.6
35631 57	Over 1,000 hp.....	do.	.1	546.9	(Z)	579.2
	Other than integral engine powered (reciprocating and rotary):					
35631 62	250 hp. and under.....	do.	1.6	8.0	2.4	10.1
35631 65	251-1,000 hp.....	do.	.5	18.3	.5	15.3
35631 67	Over 1,000 hp.....	do.	.1	10.3	(Z)	15.8
35631 81	Other compressors <sup>9</sup> .....	do.	368.5	24.2	207.8	12.0
35631 89						

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3563- --	AIR AND GAS COMPRESSORS--Continued					
35631 --	Air and Gas Compressors and Vacuum Pumps--Continued					
	Vacuum pumps (compressors), except laboratory: <sup>1</sup>					
35631 20	As reported in the census of manufactures.....	1,000.....	(X)	50.4	( <sup>3</sup> )	( <sup>3</sup> )
	As reported in Current Industrial Reports series MA-35P.....	...do.....	196.8	45.3	161.4	25.9
	Vacuum pumps (except laboratory):					
35631 93	Moderate (low) vacuum.....	...do.....	183.9	31.3	134.1	18.9
35631 94	High vacuum.....	...do.....	12.9	14.0	27.3	7.0
35632 15	Parts and attachments for air and gas compressors, except refrigeration compressors.....	.....	(X)	148.4	(X)	( <sup>7</sup> )
35635 31	Industrial spraying equipment: Power paint-spraying outfits and liquid power sprayers, except agricultural.....	.....	(X)	93.1	(X)	70.0
35635 51	Hand sprayers, except agricultural and flame.....	.....	(X)	.4	(X)	1.3
Total product shipments including interplant transfers						
			1972		1967 value	
			Quantity (1,000 units)	Value (million dollars)	(million dollars)	
3564- --	BLOWERS AND FANS, TOTAL.....		(X)	682.0	479.1	
35643 --	Centrifugal Fans and Blowers <sup>11</sup> .....		(X)	181.0	136.8	
35643 17	Blower-filter units.....		(X)	7.3	1.0	
35643 19	Classes I and II fans (over 1-1/2 inches to 6-3/4 inches maximum total pressure).....		(X)	26.3	25.4	
35643 21	Classes III and IV fans (greater than 6-3/4 inches maximum total pressure).....		(NA)	31.2	17.3	
35643 23	Furnace and lightweight air-conditioning blowers.....		(X)	23.3	10.9	
35643 24	Industrial fans, excluding blowers, turboblowers, and multistage blowers.....		(X)	32.3	24.1	
35643 27	Positive displacement blowers (excluding turboblowers).....		(X)	29.0	21.7	
35643 28	Turboblowers (single stage, single and double inlet).....		(X)	9.3	17.9	
35643 29	Multistage blowers.....		(X)	7.2	18.5	
35643 31	Small housed blowers (utility sets).....		(X)	15.1		
35644 --	Propeller Fans and Accessories, Axial Fans, and Power Roof Ventilators <sup>11</sup> .....		(X)	159.9	138.1	
	Axial fans.....		(X)	32.9	32.9	
35644 13	Directly connected to driver.....		(X)	24.2	24.6	
35644 15	Belt driven.....		(X)	8.7	8.3	
	Propeller fans and accessories:					
	Industrial.....		(X)	28.3	19.9	
35644 33	Directly connected to driver.....		(X)	5.5	10.7	
35644 35	Belt driven.....		(X)	22.8	9.2	
35644 37	Penthouses, shutters, guards, and other accessories.....		(X)	2.8	4.5	
35644 39	Parts for fans and blowers.....		(X)	31.4	40.4	
	Power roof ventilators group.....		(X)	40.1	40.4	
35644 41	Axial and propeller type.....		(X)	9.4	16.2	
35644 43	Centrifugal type.....	198.3		28.1	<sup>12</sup> 22.9	
35644 45	Parts for power roof ventilators.....		(X)	2.6	1.4	
35644 00	Propeller fans and accessories, axial fans, and power roof ventilators, n.s.k.....		(X)	<sup>13</sup> 24.4	-	
35645 --	Dust Collection and Other Air Purification Equipment for Heating, Ventilating, and Air-Conditioning Systems <sup>11</sup> .....		(X)	121.3	70.6	
35645 31	Air washers.....		(X)	( <sup>14</sup> )	2.7	
	Dust collection and other air purification equipment for heat- ing, ventilating, and air-conditioning systems:					
35645 41	Electrostatic precipitation equipment.....		(X)	24.4	19.2	
35645 43	Air filters for air-conditioners and furnaces, etc., of 2400 CFM and under.....		(X)	61.7	28.7	
35645 49	Other dust collection and other air purification equipment, including air filters for air-conditioners and furnaces (over 2400 CFM).....		(X)	<sup>14</sup> 35.2	20.0	

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers				
		1972		1967 value		
		Quantity  (1,000 units)	Value  (million dollars)		(million dollars)	
3564- --	BLOWERS AND FANS--Continued					
35646 --	Dust Collection and Other Air Purification Equipment for Industrial Gas Cleaning Systems <sup>11</sup> .....	(X)	198.0		111.9	
	As reported on Census Annual Form MA-35J (see tables 6A-2 and 6A-3).....	(X)	199.4		(NA)	
	As reported in the census of manufactures.....	(X)	179.7		97.7	
	Particulate emissions collectors:					
35646 51	Electrostatic precipitators.....	(NA)	50.5		26.9	
35646 54	Fabric filters.....	(NA)	72.2		32.7	
35646 55	Mechanical collectors.....	(NA)	23.3		21.0	
35646 58	Wet scrubbers.....	(NA)	16.4			
	Gas emissions control devices:				3.7	
35646 61	Scrubber (gas absorber).....	(NA)	1.2			
35646 62	Catalytic oxidation systems.....	(NA)	5.2			
35646 63	Thermal and direct oxidation systems.....					
35646 67	Gas adsorbers.....	(NA)	10.9		13.4	
35646 69	Other.....					
35646 00	Dust collection and other air purification equipment for industrial gas cleaning systems, n.s.k. <sup>15</sup> .....	(X)	18.3		14.2	
35640 00	Blowers and fans, n.s.k., for establishments with 10 employees or more. (See note.).....	(X)	9.7		17.4	
35640 02	Blowers and fans, n.s.k., for establishments with less than 10 employees. (See note.).....	(X)	12.1		4.3	
	Product	Total receipts including interplant transfers (million dollars)				
		1972		1972		
3565- --	INDUSTRIAL PATTERNS, TOTAL <sup>16</sup> .....	234.4		233.7		
35650 11	Industrial Patterns, Except Shoe Patterns: Foundry patterns.....	136.0		162.3		
35650 98	All other industrial patterns, except shoe patterns.....	35.6		16.0		
35650 00	Industrial patterns, n.s.k., for establishments with 10 employees or more. (See note.).....	29.3		31.4		
35650 02	Industrial patterns, n.s.k., for establishments with less than 10 employees. (See note.).....	33.5		24.0		
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3566- --	SPEED CHANGERS, DRIVES, AND GEARS, TOTAL.....		(X)	593.0	(X)	569.3
	Geared speed changers, industrial high-speed drives, mechanical variable speed drives, and unassembled gearing (loose gears, speed reducers and increasers, mechanical variable speed drives, and mechanical power transmissions, except transmissions or gearing manufactured as integral components of automobiles, trucks, buses, and aircraft):					
35660 11	Mechanical variable speed changers and parts, excluding electric motor.....	1,000 units...	127.5	72.1		
35660 21	Industrial high-speed drives, fixed ratio (pitch line velocity of 5,000 feet per minute or over, and pinion speeds of 3,600 r.p.m. and over).....	...do.....	(NA)	22.6	(NA)	47.0
	Speed reducers, fixed ratio, enclosed, except gearmotors:					
35660 22	Worm gear reducers, above 8" centers.....	...do.....	(NA)	6.3	(NA)	3.2
35660 23	Worm gear reducers, 3" to 8" centers.....	...do.....	(NA)	23.2	(NA)	13.2
35660 24	Worm gear reducers, below 3" centers.....	...do.....	243.5	13.2	319.4	25.6
35660 26	Shaft mounted reducers and screw conveyor drive (excluding shaft mounted helical gearmotors and worm gear units).....	...do.....	(NA)	22.2	161.9	27.2
35660 27	Helical, berrirngbone, spur and spiral bevel reducers, above 15" low speed centers.....	...do.....	(NA)	21.4	8.6	20.4
35660 28	Helical, herringbone, spur and spiral bevel reducers, 15" low speed centers and below.....	...do.....	(NA)	29.9	(NA)	30.9

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3566- --	SPEED CHANGERS, DRIVES, AND GEARS--Continued					
	Geared speed changers, industrial high-speed drives, mechanical variable speed drives, and unassembled gearing (loose gears, speed reducers and increasers, mechanical variable speed drives, and mechanical power transmissions, except transmissions or gearing manufactured as integral components of automobiles, trucks, buses, and aircraft)--Continued					
35660 34	Worm gearmotors, including "C" flange units, 3/4 hp. and below..	1,000 units...	457.9	<sup>17</sup> 25.4	(NA)	<sup>17</sup> 50.6
35660 37	Helical, herringbone, spur or spiral bevel gearmotors, including coupled units, 3/4 hp. and below.....	...do.....	966.7	<sup>17</sup> 38.9		
35660 35	Worm gearmotors, including "C" flange units, 1 to 5 hp.....	...do.....	29.4	<sup>17</sup> 8.1		
35660 38	Helical, herringbone, spur or spiral bevel gearmotors, including coupled units, 1 to 5 hp.....	...do.....	50.9	<sup>17</sup> 16.4	255.8	<sup>17</sup> 39.5
35660 36	Worm gearmotors, including "C" flange units, above 5 hp.....	...do.....	14.6	<sup>17</sup> 6.7	104.8	<sup>17</sup> 31.5
35660 39	Helical, herringbone, spur or spiral bevel gearmotors, including coupled units, above 5 hp.....	...do.....	23.5	<sup>17</sup> 19.1		
	Loose gears, pinions, and racks (excluding spare parts for reducers):					
35660 41	Fine pitch (19.99 diametral pitch and finer).....		(X)	36.4	(X)	48.3
35660 49	Coarse pitch (below 19.99 diametral pitch).....		(X)	114.1	(X)	136.9
35660 51	Other parts and components for speed changers, including housings, shafts, pins, and spacers.....	1,000 units...	(X)	24.7	(NA)	(NA)
35660 00	Speed changers, drives, and gears, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	82.9	(X)	89.3
35660 02	Speed changers, drives, and gears, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	9.4	(X)	5.7
3567- --	INDUSTRIAL FURNACES AND OVENS, TOTAL <sup>18</sup> .....		(X)	341.1	(X)	415.9
35671 --	Electrical Industrial Furnaces and Ovens, Metal Processing.....		(X)	67.5	(X)	90.8
	Electric furnaces, excluding induction:					
35671 11	Metal melting.....	Units.....	(NA)	19.0	457	19.8
35671 21	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)....	...do.....	(NA)	17.4	2,264	46.2
35671 43	Electric, including infrared, and extruding.....	...do.....	11,852	28.5	(NA)	22.8
35671 00	Electric industrial furnaces and ovens, metal processing, n.s.k. ....		(X)	2.6	(X)	2.0
35672 --	Fuel-Fired Industrial Furnaces and Ovens, Metal Processing.....		(X)	97.2	(X)	155.7
35672 11	Metal melting, including blast furnaces and cupolas.....	Units.....	(NA)	18.3	1,397	16.9
35672 21	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)....	...do.....	(NA)	43.0	3,535	93.3
35672 41	Industrial ovens.....	...do.....	(NA)	30.5	3,459	28.3
35672 61	Hot rolling, forging, forming, and extruding.....	...do.....	(NA)	4.7	(NA)	14.8
35672 00	Fuel-fired industrial furnaces and ovens, metal processing, n.s.k.....		(X)	7	(X)	2.3
35673 --	High-Frequency Induction and Dielectric Heating Equipment and Parts, Attachments, and Components.....		(X)	147.0	(X)	149.0
	Induction furnaces and heating equipment:					
35673 13	Radio-frequency type, including spark gap.....	Units.....	(NA)	5.2	(NA)	18.0
35673 15	Line and motor-generator set frequency types, except metal melting.....	...do.....	(NA)	2.1	(NA)	9.9
35673 17	Metal melting induction furnaces.....	...do.....	(NA)	37.1	(NA)	(NA)
35673 19	All other induction furnaces and heating equipment.....	...do.....	(NA)		(NA)	(NA)
35673 31	Dielectric heating equipment.....		(X)	11.6	(X)	6.2
	Other electrical equipment for industrial use, except soldering irons:					
	Industrial electric heating units and devices, except heating units for electric furnaces:					
35673 51	Tubular heaters.....		(X)	47.3	(X)	6.4
35673 59	All other industrial electric heating units and devices, including strip, space, and ring heaters; water and oil immersion heaters; glue and compound pots, etc.....				(X)	40.9
35673 91	Parts, attachments, and components for industrial furnaces and ovens, including electric heating units (sold separately).....		(X)	37.7	(X)	61.8
35673 00	High-frequency induction and dielectric heating equipment and parts, attachments, and components, n.s.k.....		(X)	6.0	(X)	5.8
35670 00	Industrial furnaces and ovens, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	20.7	(X)	16.3
35670 02	Industrial furnaces and ovens, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	8.7	(X)	4.0

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3568- --	POWER TRANSMISSION EQUIPMENT, N.E.C., TOTAL.....	.....	(X)	975.0	(X)	714.1
35681 --	Plain Bearings and Busbings, Unmounted.....	.....	(X)	121.0	(X)	109.6
35681 15	Plain bearings and busbings, unmounted, machined, excluding carbon and graphite, all types, except automotive.....	.....	(X)	111.2	(X)	98.5
35681 51	Mounted bearings, plain.....	.....	(X)	9.8	(X)	11.1
35683 --	Other Mechanical Power Transmission Equipment, Except Speed Changers, Drives, and Gears.....	.....	(X)	854.0	(X)	604.5
	Other mechanical power transmission equipment, excluding equipment for automobiles, trucks, buses, and aircraft:					
	Clutches:					
35683 11	Friction type.....	1,000 units...	641.3	32.3	(NA)	25.4
35683 13	Hydraulic type, including hydraulic couplings <sup>19</sup> .....	...do.....	( <sup>20</sup> )	( <sup>20</sup> )	(NA)	13.7
35683 17	Package-type hydrostatic transmissions.....	...do.....	-	-	(NA)	21.0
35683 19	All other clutches.....	...do.....	( <sup>20</sup> )	<sup>20</sup> 92.8		
	Flexible couplings: <sup>21</sup>					
	1-incb nominal bore and over:					
35683 21	Gear type.....	...do.....	(NA)	24.6	(NA)	24.9
35683 22	Other than gear type.....	...do.....	(NA)	22.3	1,035.7	19.5
35683 24	Less than 1-incb nominal bore.....	...do.....	(NA)	8.8	(NA)	1.7
35683 25	Universal joints.....	...do.....	(NA)	64.9	5,500.6	54.8
35683 27	Flexible shafts.....	...do.....	308.1	1.3	(NA)	1.3
	Chains for sprocket drives:					
35683 33	ASA standard roller chain.....	.....	(X)	85.2	(X)	86.4
35683 35	Other chains for sprocket drives.....	.....	(X)	85.7	(X)	33.7
	Sprockets:					
35683 43	For ASA standard roller chain.....	.....	(X)	41.1	(X)	31.7
35683 45	Other sprockets.....	.....	(X)	13.4	(X)	11.2
35683 51	Pulleys.....	1,000 units...	431.0	16.8	(NA)	13.6
	Sheaves:					
35683 61	Single drive.....	...do.....	( <sup>22</sup> )	( <sup>22</sup> )		
35683 65	Multiple drive.....	...do.....	2,741.0	17.4	(NA)	24.4
35683 87	Railroad car journal bearings.....	...do.....	( <sup>22</sup> )	( <sup>22</sup> )	( <sup>23</sup> )	( <sup>23</sup> )
35683 92	Inboard marine propulsion gear transmissions (less than 600 hp.), excluding outboard gear drives.....	.....	(X)	10.8	(X)	23.4
35683 94	Inboard marine propulsion gear transmissions (600 hp. and over) including reversing, speed changing, and turbine-driven gear drives.....	.....	(X)	2.7		
35683 96	Outboard gear drives (inboard prime mover).....	.....			(X)	3.1
35683 91	Mechanical valve operators, excluding valve or motor.....	.....				
35683 97	Mechanical seals for rotating shafts.....	.....	(X)	<sup>22</sup> 306.0	(X)	<sup>23</sup> 179.8
35683 98	Other mechanical power transmission equipment, except aircraft, automobile, truck, and bus.....	.....				
35683 00	Other mechanical power transmission equipment, except speed changers, drives, and gears, n.s.k.....	.....	(X)	27.9	(X)	34.9
3569- --	GENERAL INDUSTRIAL MACHINERY, N.E.C., TOTAL.....	.....	(X)	1,132.8	(X)	899.8
35691 --	Packing and Packaging Machinery, N.E.C. <sup>24</sup> .....	.....	(X)	177.4	(X)	139.5
	Packaging and wrapping machines, except for food, tobacco, beverages, and dairy products:					
35691 12	Filling-capping machines, including collapsible tube filling, closing, sealing machines.....	Units.....	(NA)	15.5	1,707	6.7
35691 13	Aerosol packaging machines.....	...do.....	( <sup>25</sup> )	( <sup>25</sup> )	(NA)	7.0
35691 14	Bag and pouch forming, filling, and sealing machines.....	...do.....	3,501	25.6	4,041	21.1
35691 19	Other wrapping and packaging machinery, such as bundling, banding, unit packaging, and tablet wadding.....	...do.....	(NA)	<sup>25</sup> 86.1	(NA)	64.2
35691 25	Box, case, carton, and tray setting up, loading, lining, closing, and sealing machines.....	...do.....	3,563	28.6	1,719	20.6
35691 26	Labeling and marking machines, except for food, tobacco, beverages, and dairy products.....	...do.....	(NA)	21.6	(NA)	19.9

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3569- --	GENERAL INDUSTRIAL MACHINERY, N.E.C.--Continued					
35692 --	Filters and Strainers <sup>24</sup> .....		(X)	275.4	(X)	188.1
	Filters, including purification, clarification and solids removal: excluding internal combustion engine filters, dust collection and air purification equipment and air filters for comfort heating and air-conditioning equipment:					
	Permanent element:					
35692 41	Self-cleaning, cartridge type.....	Units.....	(NA)	17.2	}	(NA)
35692 42	Removable element.....	...do.....	(NA)	32.8		
	Disposable element:					
35692 43	Filter housings only, cartridge type.....	...do.....	(NA)	29.9		
35692 44	Elements and cartridges only.....	...do.....	(NA)	77.9		168.1
35692 46	Other types, including cyclonic flow, magnetic, precoat, sand, etc.....	...do.....	(NA)	83.8		
	Strainers, except domestic culinary types, air cleaning, and mining screens:					
35692 47	Self-cleaning.....	...do.....	(NA)	9.6	}	(NA)
35692 48	Removable element.....	...do.....	(NA)	24.2		
35699 --	All Other General Industrial Machinery, N.E.C. <sup>24</sup> .....		(X)	535.5	(X)	437.8
35699 31	Gas generating equipment.....		(X)	8.2	(X)	21.8
35699 51	Centrifugals and separators, except cream, grain, and berry separators.....	Units.....	(NA)	47.8	(NA)	28.8
35699 61	Automatic fire sprinkler equipment.....		(X)	53.3	(X)	19.3
35699 71	Pneumatic jacks.....	Units.....	}	(NA)	(NA)	24.2
35699 73	Hydraulic jacks.....	...do.....				
35699 98	All other general industrial machinery and equipment.....	...do.....	(NA)	402.2	(NA)	343.7
35690 00	General industrial machinery, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	116.5	(X)	123.0
35690 02	General industrial machinery, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	28.0	(X)	11.1

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>The value of drivers is reported only at the product class level. For each product line, value figures exclude, except as noted for codes 35613 13 through 35613 70, the value of drivers (electric motors or prime movers) shipped with that product. The extent to which some respondents may have included the value of drivers with the value of specific pumps is unknown.

<sup>3</sup>For 1967, data for product code 35612 00, Hydraulic fluid power pumps, also include value for product code 35631 20, Vacuum pumps.

<sup>4</sup>Does not include hydraulic fluid power pumps for power-steering units in passenger automobiles.

<sup>5</sup>Includes the value of drivers.

<sup>6</sup>Prior to 1972, domestic sump pumps, 1 hp. and under, were included with other pumps.

<sup>7</sup>For 1967, value of parts and attachments for air and gas compressors is included with the value of parts and attachments for pumps and pumping equipment.

<sup>8</sup>For 1967, also includes value for air and gas compressors, n.s.k.

<sup>9</sup>This product class was redefined in 1972 to include plain mounted bearings. However, these data should have been classified in industry 3568 and are so shown in this report. For 1971 and prior years, this product was included in industry 3566, Power Transmission Equipment.

<sup>10</sup>For 1967, excludes the value of vacuum pumps which are included with hydraulic fluid power pumps, code 35612 --.

<sup>11</sup>The product class structure of this industry has been significantly changed effective in 1972.

<sup>12</sup>Represents 159.7 thousand units.

<sup>13</sup>Data for product code 35644 00, Propeller fans and accessories, axial fans, and power roof ventilators, n.s.k., includes data for Centrifugal fans and blowers, n.s.k. Centrifugal fans and blowers by detailed type are listed in product codes 35643 17-31.

<sup>14</sup>Data for product code 35645 31, Air washers, is included in product code 35645 49, Other dust collection and other air purification equipment.

<sup>15</sup>Most of this value represents components for dust collection and other air purification equipment for industrial gas cleaning systems.

<sup>16</sup>Excludes industrial patterns produced for use in the same establishment.

<sup>17</sup>Represents the value of gearmotor reducer elements only. Does not include the value of electric motors shipped as part of gearmotor reducer elements.

<sup>18</sup>Represents shipments of industrial furnaces and ovens produced by manufacturing establishments only. Does not include industrial furnaces and ovens erected at the site by engineering and construction firms which purchase component parts for such furnaces and ovens.

<sup>19</sup>Defined as a device for transmitting power from one shaft to another or between a shaft and other transmitting device (such as a gear, sprocket, pulley, or sheave) in which power is transmitted by fluid means with no direct mechanical connection.

<sup>20</sup>In 1972, data for product code 35683 13, Hydraulic type clutches, including hydraulic couplings, are included with product code 35683 19, All other clutches.

<sup>21</sup>Defined as a device for connecting two rotating shafts and designed to accommodate a limited degree of parallel and angular misalignment.

<sup>22</sup>In 1972, data for product codes 35683 61, Single drive sheaves, and 35683 87, Railroad car journal bearings, are included with product code 35683 98, Other mechanical power transmission equipment.

<sup>23</sup>In 1967, data for product code 35683 87, Railroad car journal bearings, are included with product code 35683 98, Other mechanical power transmission equipment.

<sup>24</sup>The product class structure for this industry was revised, effective with 1972.

<sup>25</sup>Data for aerosol packaging machines are included with other wrapping and packaging machinery to avoid disclosing data for individual companies.

TABLE 6A-2. New Orders, Shipments, and Backlog of Orders for Selected Industrial Air Pollution Control Equipment: 1972

1972 product code	Product	New orders (bookings) <sup>1</sup>		Shipments		Backlog of orders, December 31, 1972	
		Quantity	Value	Quantity	Value	Quantity	Value
		(units)	(\$1,000)	(units)	(\$1,000)	(units)	(\$1,000)
	Selected Industrial Air Pollution Control Equipment, Total....	(X)	203,897	(X)	199,374	(X)	139,538
	Particulate emissions collectors.....	(X)	189,891	(X)	189,376	(X)	130,306
35646 51	Electrostatic precipitators.....	319	74,527	322	76,103	327	85,093
35646 54	Fabric filters.....	12,868	67,868	12,056	73,101	3,197	21,903
35646 55	Mechanical collectors.....	8,142	18,903	7,569	17,235	1,361	8,110
35646 58	Wet scrubbers.....	1,577	28,593	1,391	22,937	847	15,200
	Gaseous emissions control devices.....	(X)	14,006	(X)	9,998	(X)	9,232
35646 62	Catalytic oxidation systems.....	102	5,014	174	4,855	47	2,708
35646 64	Thermal and direct oxidation systems.....						
35646 61	Scrubber (gas absorber).....						
35646 67	Gas adsorbers (nonliquid).....						
		639	1,939	565	1,668	184	718

(X) Not applicable.

<sup>1</sup>New orders are defined as orders received during the year minus cancellations received during the year.

Source: Current Industrial Report MA-35J, Selected Industrial Air Pollution Control Equipment.

TABLE 6A-3. Value of Shipments of Selected Industrial Air Pollution Equipment, by End Use: 1972

(Thousands of dollars)

Product	Total shipments	End use											
		Steam electric power plants	Coal mining and cleaning	Petro- leum refining	Iron and steel mills and foundries	Primary metal smelting plants	Chemicals and fertilizer production	Cement manufac- turing	Soap and detergent manufac- turing	Grain milling and handling	Cotton gin- ning	Pulp and papermill opera- tions	Other end uses
Total shipments.....	199,374	58,833	(D)	6,998	20,036	5,453	13,742	13,142	446	5,925	(D)	10,588	63,135
Particulate emissions collectors:													
Electrostatic precipitators.....	76,103	49,714	(D)	3,003	954	2,392	2,632	6,812	(D)	-	-	6,724	(D)
Fabric filters.....	73,101	(D)	273	(D)	15,311	2,327	8,007	5,719	(D)	5,673	-	2,106	29,539
Mechanical collectors.....	17,235	(D)	(D)	(D)	(D)	(D)	(D)	318	(D)	140	(D)	730	10,881
Wet scrubbers.....	22,937	3,902	(D)	(D)	3,127	397	1,171	293	-	112	-	(D)	12,838
Gaseous emissions control devices:													
Catalytic oxidation systems.....	4,855	(D)	(D)	(D)	-	(D)	(D)	-	-	-	-	-	(D)
Thermal and direct oxidation systems.....													
Scrubber (gas absorber).....		3,475	1,072	-	(D)	(D)	(D)	-	-	-	-	(D)	(D)
Gas adsorber.....		1,668	(D)	-	(D)	-	-	-	-	-	-	-	(D)

- Represents zero. (D) Withheld to avoid disclosing figures of individual companies.

Source: Current Industrial Report MA-35J, Selected Industrial Air Pollution Control Equipment.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
INDUSTRIAL PUMPS, EXCEPT HYDRAULIC FLUID POWER PUMPS (35611)			HYDRAULIC FLUID POWER PUMPS (35612)--Continued		
United States.....	611.9	436.9	South Region--Continued		
Northeast Region.....	174.7	149.8	West South Central Division.....	2.4	AA
New England Division.....	14.8	23.9	Oklahoma.....	BB	AA
Massachusetts.....	CC	17.1	West Region.....	6.8	27.3
Rhode Island.....	6.3	BB	Pacific Division.....	6.8	27.3
Connecticut.....	AA	AA	California.....	6.8	27.2
Middle Atlantic Division.....	159.9	125.9			
New York.....	31.5	26.2	DOMESTIC WATER SYSTEMS, PUMPS, JACKS, CYLINDERS (35613)		
New Jersey.....	60.5	64.1	United States.....	151.1	140.3
Pennsylvania.....	68.0	35.7	Northeast Region.....	EE	EE
North Central Region.....	222.1	164.2	Middle Atlantic Division.....	EE	EE
East North Central Division.....	174.3	130.9	New York.....	EE	EE
Ohio.....	70.0	46.1	North Central Region.....	82.8	75.7
Indiana.....	22.0	11.2	East North Central Division.....	64.1	62.0
Illinois.....	46.7	40.1	Ohio.....	28.3	22.5
Michigan.....	14.3	17.5	Indiana.....	EE	EE
Wisconsin.....	21.4	15.9	Illinois.....	8.6	14.3
West North Central Division.....	47.8	33.3	Michigan.....	1.1	( <sup>1</sup> )
Minnesota.....	EE	CC	Wisconsin.....	EE	EE
Iowa.....	EE	CC	West North Central Division.....	18.7	13.7
Missouri.....	AA	( <sup>1</sup> )	Minnesota.....	BB	( <sup>1</sup> )
Nebraska.....	CC	BB	Iowa.....	CC	CC
Kansas.....	EE	EE	Missouri.....	AA	AA
South Region.....	81.4	47.2	Nebraska.....	BB	BB
South Atlantic Division.....	FF	EE	Kansas.....	BB	BB
Maryland.....	EE	( <sup>1</sup> )	South Region.....	37.8	FF
North Carolina.....	BB	BB	South Atlantic Division.....	BB	AA
South Carolina.....	CC	BB	Georgia.....	AA	AA
Georgia.....	EE	BB	East South Central Division.....	BB	( <sup>1</sup> )
Florida.....	BB	2.8	Kentucky.....	BB	( <sup>1</sup> )
East South Central Division.....	CC	BB	West South Central Division.....	34.2	FF
Tennessee.....	BB	BB	Arkansas.....	FF	EE
West South Central Division.....	39.5	28.1	Oklahoma.....	CC	CC
Arkansas.....	CC	AA	Texas.....	4.3	4.5
Louisiana.....	BB	( <sup>1</sup> )	West Region.....	EE	FF
Oklahoma.....	19.2	6.1	Pacific Division.....	EE	27.1
Texas.....	11.6	20.5	California.....	EE	27.1
West Region.....	133.8	75.7			
Mountain Division.....	14.5	13.0	PUMPS AND PUMPING EQUIPMENT, N.E.C. (35615)		
Colorado.....	CC	CC	United States.....	186.4	<sup>3</sup> (NA)
Utah.....	CC	BB	Northeast Region.....	22.0	(NA)
Nevada.....	AA	( <sup>1</sup> )	New England Division.....	6.1	(NA)
Pacific Division.....	119.3	62.7	Massachusetts.....	BB	(NA)
Oregon.....	EE	EE	Rhode Island.....	BB	(NA)
California.....	GG	GG	Middle Atlantic Division.....	15.9	(NA)
			New York.....	1.7	(NA)
HYDRAULIC FLUID POWER PUMPS (35612)			New Jersey.....	4.9	(NA)
United States.....	261.5	<sup>2</sup> 218.6	Pennsylvania.....	9.2	(NA)
Northeast Region.....	17.4	21.7	North Central Region.....	64.8	(NA)
New England Division.....	CC	12.3	East North Central Division.....	53.2	(NA)
Massachusetts.....	CC	BB	Ohio.....	FF	(NA)
Connecticut.....	BB	CC	Indiana.....	BB	(NA)
Middle Atlantic Division.....	CC	9.5	Illinois.....	CC	(NA)
New York.....	BB	BB	Michigan.....	3.0	(NA)
New Jersey.....	BB	BB	Wisconsin.....	BB	(NA)
Pennsylvania.....	BB	3.6	West North Central Division.....	11.6	(NA)
North Central Region.....	209.5	142.9	Minnesota.....	BB	(NA)
East North Central Division.....	103.3	83.1	Iowa.....	BB	(NA)
Ohio.....	39.1	29.7	Kansas.....	CC	(NA)
Illinois.....	26.9	EE	South Region.....	87.3	(NA)
Michigan.....	20.1	13.8	South Atlantic Division.....	1.5	(NA)
Wisconsin.....	EE	21.9	Florida.....	1.4	(NA)
West North Central Division.....	106.2	59.8	East South Central Division.....	11.2	(NA)
Minnesota.....	33.8	EE	Kentucky.....	BB	(NA)
Iowa.....	EE	( <sup>1</sup> )	Alabama.....	AA	(NA)
Missouri.....	EE	EE	West South Central Division.....	74.7	(NA)
Nebraska.....	FF	FF	Oklahoma.....	FF	(NA)
Kansas.....	EE	CC	Texas.....	53.3	(NA)
South Region.....	27.8	26.7			
South Atlantic Division.....	BB	AA			
East South Central Division.....	FF	FF			
Kentucky.....	AA	( <sup>1</sup> )			
Mississippi.....	FF	FF			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
<b>PUMPS AND PUMPING EQUIPMENT, N.E.C. (35615)--Con.</b>			<b>BALL BEARINGS, COMPLETE (35621)--Continued</b>		
West Region.....	12.3	(NA)	South Region--Continued		
Mountain Division.....	AA	(NA)	West South Central Division.....	CC	BB
Arizona.....	AA	(NA)	Oklahoma.....	CC	BB
Pacific Division.....	EE	(NA)	West Region.....	BB	BB
California.....	10.2	(NA)	Pacific Division.....	BB	BB
			California.....	BB	BB
<b>PARTS AND ATTACHMENTS FOR PUMPS AND PUMPING EQUIPMENT (35616)</b>			<b>TAPES, (EXCEPT THRUST) ROLLER BEARINGS, COMPLETE (35622)</b>		
United States.....	346.5	<sup>3</sup> (NA)	United States.....	419.9	367.7
Northeast Region.....	64.4	(NA)	Northeast Region.....	GG	GG
New England Division.....	13.4	(NA)	Middle Atlantic Division.....	GG	GG
Maine.....	BB	(NA)	New Jersey.....	GG	FF
Massachusetts.....	5.3	(NA)	North Central Region.....	EE	GG
Rhode Island.....	BB	(NA)	East North Central Division.....	EE	GG
Middle Atlantic Division.....	51.0	(NA)	Ohio.....	GG	GG
New York.....	13.5	(NA)	Indiana.....	BB	BB
New Jersey.....	24.4	(NA)	Illinois.....	EE	CC
Pennsylvania.....	13.1	(NA)	Michigan.....	GG	FF
North Central Region.....	155.8	(NA)	South Region.....	FF	FF
East North Central Division.....	95.9	(NA)	South Atlantic Division.....	FF	EE
Ohio.....	34.2	(NA)	Virginia.....	EE	EE
Indiana.....	10.2	(NA)	South Carolina.....	EE	( <sup>1</sup> )
Illinois.....	26.2	(NA)	East South Central Division.....	EE	CC
Michigan.....	21.5	(NA)	Kentucky.....	EE	CC
Wisconsin.....	3.7	(NA)	West South Central Division.....	AA	( <sup>1</sup> )
West North Central Division.....	59.9	(NA)	Oklahoma.....	AA	( <sup>1</sup> )
Minnesota.....	25.5	(NA)			
Iowa.....	CC	(NA)	<b>OTHER ROLLER BEARINGS, COMPLETE (35623)</b>		
Missouri.....	7.0	(NA)	United States.....	280.9	225.0
Nebraska.....	EE	(NA)	Northeast Region.....	134.9	129.7
Kansas.....	BB	(NA)	New England Division.....	37.7	EE
South Region.....	64.7	(NA)	New Hampshire.....	BB	( <sup>1</sup> )
South Atlantic Division.....	EE	(NA)	Connecticut.....	FF	EE
North Carolina.....	CC	(NA)	Middle Atlantic Division.....	96.8	GG
Georgia.....	AA	(NA)	New York.....	EE	EE
Florida.....	AA	(NA)	New Jersey.....	34.9	48.7
East South Central Division.....	EE	(NA)	Pennsylvania.....	FF	45.8
Mississippi.....	CC	(NA)	North Central Region.....	96.9	63.1
West South Central Division.....	43.5	(NA)	East North Central Division.....	GG	63.1
Arkansas.....	AA	(NA)	Ohio.....	FF	CC
Oklahoma.....	CC	(NA)	Indiana.....	42.8	33.2
Texas.....	33.5	(NA)	Illinois.....	18.3	EE
West Region.....	61.6	(NA)	Michigan.....	6.5	CC
Mountain Division.....	8.2	(NA)	Wisconsin.....	BB	( <sup>1</sup> )
Colorado.....	CC	(NA)	South Region.....	FF	FF
Pacific Division.....	53.5	(NA)	South Atlantic Division.....	FF	FF
Oregon.....	BB	(NA)	North Carolina.....	AA	CC
California.....	FF	(NA)	South Carolina.....	FF	EE
<b>BALL BEARINGS, COMPLETE (35621)</b>			West Region.....	CC	CC
United States.....	474.2	472.7	Pacific Division.....	CC	CC
Northeast Region.....	339.6	360.3	California.....	CC	CC
New England Division.....	203.2	243.7			
New Hampshire.....	EE	FF	<b>MOUNTED BEARINGS (35624)</b>		
Connecticut.....	GG	GG	United States.....	100.9	96.0
Middle Atlantic Division.....	136.4	116.5	Northeast Region.....	FF	FF
New York.....	59.4	GG	New England Division.....	EE	EE
New Jersey.....	EE	( <sup>1</sup> )	Connecticut.....	EE	EE
Pennsylvania.....	GG	GG	Middle Atlantic Division.....	EE	EE
North Central Region.....	120.5	GG	New York.....	CC	CC
East North Central Division.....	GG	100.2	Pennsylvania.....	BB	AA
Ohio.....	51.2	FF	North Central Region.....	56.9	66.7
Indiana.....	18.8	15.5	East North Central Division.....	GG	66.7
Illinois.....	26.1	FF	Indiana.....	FF	FF
Michigan.....	FF	FF	Illinois.....	EE	FF
West North Central Division.....	BB	( <sup>1</sup> )	Wisconsin.....	AA	( <sup>1</sup> )
Missouri.....	AA	( <sup>1</sup> )			
Kansas.....	AA	( <sup>1</sup> )			
South Region.....	EE	CC			
South Atlantic Division.....	CC	BB			
North Carolina.....	BB	( <sup>1</sup> )			
South Carolina.....	BB	BB			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MOUNTED BEARINGS (35624)--Continued			PARTS AND ATTACHMENTS FOR AIR AND GAS COMPRESSORS (35632)--Continued		
North Central Region--Continued			Northeast Region.....	75.9	(NA)
West North Central Division.....	AA	( <sup>1</sup> )	New England Division.....	CC	(NA)
Kansas.....	AA	( <sup>1</sup> )	Massachusetts.....	AA	(NA)
South Region.....	EE	BB	Connecticut.....	BB	(NA)
East South Central Division.....	EE	BB	Middle Atlantic Division.....	GG	(NA)
Kentucky.....	CC	BB	New York.....	32.2	(NA)
Tennessee.....	CC	( <sup>1</sup> )	Pennsylvania.....	37.5	(NA)
PARTS AND COMPONENTS FOR BALL AND ROLLER BEARINGS (35629)			North Central Region.....	57.9	(NA)
United States.....	138.2	118.7	East North Central Division.....	GG	(NA)
Northeast Region.....	53.8	61.6	Ohio.....	EE	(NA)
New England Division.....	FF	37.2	Indiana.....	CC	(NA)
New Hampshire.....	AA	( <sup>1</sup> )	Illinois.....	EE	(NA)
Connecticut.....	FF	FF	Wisconsin.....	8.1	(NA)
Middle Atlantic Division.....	FF	24.5	South Region.....	14.6	(NA)
New York.....	BB	BB	East South Central Division.....	BB	(NA)
Pennsylvania.....	FF	18.8	Kentucky.....	BB	(NA)
North Central Region.....	62.2	40.2	West South Central Division.....	CC	(NA)
East North Central Division.....	62.2	40.2	Oklahoma.....	BB	(NA)
Ohio.....	FF	FF	Texas.....	6.4	(NA)
Indiana.....	9.2	BB	POWER PAINT-SPRAYING EQUIPMENT (35635)		
Illinois.....	CC	BB	United States.....	93.5	<sup>2</sup> (NA)
Michigan.....	CC	CC	Northeast Region.....	2.1	(NA)
South Region.....	22.2	EE	Middle Atlantic Division.....	AA	(NA)
South Atlantic Division.....	EE	CC	Pennsylvania.....	AA	(NA)
North Carolina.....	AA	( <sup>1</sup> )	North Central Region.....	86.2	(NA)
South Carolina.....	EE	CC	East North Central Division.....	86.2	(NA)
East South Central Division.....	CC	CC	Ohio.....	FF	(NA)
Tennessee.....	CC	CC	Illinois.....	GG	(NA)
AIR AND GAS COMPRESSORS AND VACUUM PUMPS (35631)			Wisconsin.....	BB	(NA)
United States.....	480.8	4501.0	South Region.....	BB	(NA)
Northeast Region.....	246.9	298.2	West South Central Division.....	BB	(NA)
New England Division.....	39.3	18.6	Texas.....	BB	(NA)
New Hampshire.....	AA	( <sup>1</sup> )	West Region.....	AA	(NA)
Massachusetts.....	FF	EE	Pacific Division.....	AA	(NA)
Connecticut.....	EE	BB	California.....	AA	(NA)
Middle Atlantic Division.....	207.4	279.6	CENTRIFUGAL FANS AND BLOWERS (35643)		
New York.....	82.6	165.5	United States.....	181.0	<sup>3</sup> (NA)
New Jersey.....	40.5	25.5	Northeast Region.....	50.4	(NA)
Pennsylvania.....	84.3	88.6	New England Division.....	27.2	(NA)
North Central Region.....	151.4	147.2	Massachusetts.....	EE	(NA)
East North Central Division.....	140.1	143.6	Connecticut.....	EE	(NA)
Ohio.....	29.7	58.7	Middle Atlantic Division.....	30.4	(NA)
Indiana.....	FF	FF	New York.....	24.1	(NA)
Illinois.....	63.1	40.3	New Jersey.....	1.9	(NA)
Michigan.....	CC	CC	Pennsylvania.....	4.4	(NA)
Wisconsin.....	12.1	12.4	North Central Region.....	103.9	(NA)
West North Central Division.....	11.3	3.6	East North Central Division.....	95.8	(NA)
Minnesota.....	CC	( <sup>1</sup> )	Ohio.....	23.0	(NA)
Missouri.....	BB	BB	Indiana.....	28.9	(NA)
South Region.....	66.3	49.3	Illinois.....	FF	(NA)
South Atlantic Division.....	FF	( <sup>1</sup> )	Michigan.....	20.5	(NA)
North Carolina.....	FF	( <sup>1</sup> )	West North Central Division.....	8.2	(NA)
East South Central Division.....	EE	AA	Minnesota.....	BB	(NA)
Kentucky.....	EE	AA	Missouri.....	BB	(NA)
West South Central Division.....	FF	47.1	South Region.....	8.0	(NA)
Arkansas.....	BB	( <sup>1</sup> )	East South Central Division.....	CC	(NA)
Louisiana.....	CC	BB	Kentucky.....	BB	(NA)
Oklahoma.....	4.9	CC	Alabama.....	BB	(NA)
Texas.....	EE	36.8	West South Central Division.....	AA	(NA)
West Region.....	16.2	6.3	Texas.....	AA	(NA)
Pacific Division.....	EE	6.3	West Region.....	11.5	(NA)
Washington.....	BB	-	Mountain Division.....	AA	(NA)
California.....	EE	6.3	Pacific Division.....	EE	(NA)
PARTS AND ATTACHMENTS FOR AIR AND GAS COMPRESSORS (35632)			Oregon.....	BB	(NA)
United States.....	148.4	<sup>3</sup> (NA)	California.....	CC	(NA)

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PROPELLER FANS AND ACCESSORIES, AXIAL FANS (35644)			DUST AND AIR-PURIFICATION EQUIPMENT, GAS CLEANING SYSTEM (35646)		
United States.....	159.9	<sup>3</sup> (NA)	United States.....	198.0	<sup>3</sup> (NA)
Northeast Region.....	44.9	(NA)	Northeast Region.....	75.4	(NA)
New England Division.....	18.7	(NA)	New England Division.....	3.3	(NA)
Massachusetts.....	CC	(NA)	Massachusetts.....	AA	(NA)
Connecticut.....	CC	(NA)	Connecticut.....	BB	(NA)
Middle Atlantic Division.....	(NA)	(NA)	Middle Atlantic Division.....	72.1	(NA)
New York.....	(NA)	(NA)	New York.....	EE	(NA)
New Jersey.....	AA	(NA)	New Jersey.....	47.3	(NA)
Pennsylvania.....	BB	(NA)	Pennsylvania.....	CC	(NA)
North Central Region.....	74.5	(NA)	North Central Region.....	50.5	(NA)
East North Central Division.....	69.6	(NA)	East North Central Division.....	39.5	(NA)
Ohio.....	27.0	(NA)	Ohio.....	7.3	(NA)
Indiana.....	12.9	(NA)	Indiana.....	EE	(NA)
Illinois.....	11.5	(NA)	Illinois.....	CC	(NA)
Michigan.....	EE	(NA)	Michigan.....	6.3	(NA)
Wisconsin.....	CC	(NA)	Wisconsin.....	BB	(NA)
West North Central Division.....	4.9	(NA)	West North Central Division.....	11.0	(NA)
Minnesota.....	BB	(NA)	Minnesota.....	8.1	(NA)
Missouri.....	BB	(NA)	Missouri.....	AA	(NA)
South Region.....	32.9	(NA)	Kansas.....	AA	(NA)
South Atlantic Division.....	10.7	(NA)	South Region.....	58.9	(NA)
North Carolina.....	CC	(NA)	South Atlantic Division.....	EE	(NA)
Florida.....	4.2	(NA)	Delaware.....	BB	(NA)
East South Central Division.....	5.6	(NA)	Maryland.....	EE	(NA)
Kentucky.....	AA	(NA)	East South Central Division.....	FF	(NA)
Tennessee.....	BB	(NA)	Kentucky.....	FF	(NA)
West South Central Division.....	16.6	(NA)	Tennessee.....	CC	(NA)
Oklahoma.....	CC	(NA)	Alabama.....	CC	(NA)
Texas.....	CC	(NA)	Mississippi.....	AA	(NA)
West Region.....	7.6	(NA)	West South Central Division.....	AA	(NA)
Mountain Division.....	1.8	(NA)	Texas.....	AA	(NA)
Colorado.....	AA	(NA)	West Region.....	13.5	(NA)
Pacific Division.....	5.8	(NA)	Mountain Division.....	AA	(NA)
Oregon.....	AA	(NA)	New Mexico.....	AA	(NA)
California.....	4.3	(NA)	Pacific Division.....	EE	(NA)
DUST AND AIR-PURIFICATION EQUIPMENT, HEATING AND AIR-CONDITIONING (35645)			Oregon.....	AA	(NA)
United States.....	121.3	<sup>3</sup> (NA)	California.....	10.3	(NA)
Northeast Region.....	32.3	(NA)	SPEED CHANGERS, INDUSTRIAL HIGH-SPEED DRIVES, AND GEARS (35660)		
New England Division.....	3.4	(NA)	United States.....	593.0	(NA)
Maine.....	BB	(NA)	Northeast Region.....	163.1	(NA)
Middle Atlantic Division.....	28.9	(NA)	New England Division.....	43.8	(NA)
New York.....	EE	(NA)	Massachusetts.....	32.3	(NA)
New Jersey.....	BB	(NA)	Connecticut.....	EE	(NA)
Pennsylvania.....	14.1	(NA)	Middle Atlantic Division.....	119.3	(NA)
North Central Region.....	39.4	(NA)	New York.....	27.4	(NA)
East North Central Division.....	29.8	(NA)	New Jersey.....	20.5	(NA)
Ohio.....	12.5	(NA)	Pennsylvania.....	71.5	(NA)
Indiana.....	CC	(NA)	North Central Region.....	346.8	(NA)
Illinois.....	5.2	(NA)	East North Central Division.....	300.5	(NA)
Michigan.....	BB	(NA)	Ohio.....	47.8	(NA)
Wisconsin.....	BB	(NA)	Indiana.....	69.4	(NA)
West North Central Division.....	9.6	(NA)	Illinois.....	89.3	(NA)
Minnesota.....	BB	(NA)	Michigan.....	28.2	(NA)
Missouri.....	BB	(NA)	Wisconsin.....	65.8	(NA)
Kansas.....	AA	(NA)	West North Central Division.....	46.3	(NA)
South Region.....	26.8	(NA)	Minnesota.....	14.3	(NA)
South Atlantic Division.....	EE	(NA)	Iowa.....	BB	(NA)
Maryland.....	BB	(NA)	Missouri.....	14.4	(NA)
North Carolina.....	4.9	(NA)	South Dakota.....	BB	(NA)
Florida.....	1.2	(NA)	Kansas.....	CC	(NA)
East South Central Division.....	15.4	(NA)	South Region.....	45.1	(NA)
Kentucky.....	EE	(NA)	South Atlantic Division.....	EE	(NA)
Tennessee.....	BB	(NA)	North Carolina.....	6.7	(NA)
West South Central Division.....	AA	(NA)	South Carolina.....	BB	(NA)
Texas.....	AA	(NA)	East South Central Division.....	CC	(NA)
West Region.....	22.7	(NA)	Mississippi.....	CC	(NA)
Mountain Division.....	AA	(NA)	West South Central Division.....	24.6	(NA)
New Mexico.....	AA	(NA)	Arkansas.....	CC	(NA)
Pacific Division.....	EE	(NA)	Oklahoma.....	AA	(NA)
Oregon.....	AA	(NA)	Texas.....	16.8	(NA)
California.....	18.8	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
<b>SPEED CHANGERS, INDUSTRIAL HIGH-SPEED DRIVES, AND GEARS (35660)--Continued</b>			<b>HF INDUCTION, DIELECTRIC HEATING EQUIPMENT AND PARTS (35673)--Continued</b>		
West Region.....	38.0	(NA)	North Central Region.....	58.9	64.7
Mountain Division.....	EE	(NA)	East North Central Division.....	GG	GG
Colorado.....	CC	(NA)	Ohio.....	32.1	22.4
Pacific Division.....	FF	(NA)	Indiana.....	CC	CC
Washington.....	BB	(NA)	Illinois.....	4.9	11.8
California.....	24.5	(NA)	Michigan.....	7.2	10.8
			Wisconsin.....	BB	CC
			West North Central Division.....	CC	BB
			Missouri.....	CC	BB
<b>ELECTRIC INDUSTRIAL FURNACES, OVENS, METAL PROCESSING (35671)</b>					
United States.....	67.5	90.8	South Region.....	5.7	BB
Northeast Region.....	23.1	28.3	East South Central Division.....	BB	BB
New England Division.....	6.4	10.2	Kentucky.....	AA	( <sup>1</sup> )
Massachusetts.....	AA	4.0	Tennessee.....	BB	( <sup>1</sup> )
Rhode Island.....	BB	BB	West South Central Division.....	AA	( <sup>1</sup> )
Middle Atlantic Division.....	16.6	18.2	Oklahoma.....	AA	( <sup>1</sup> )
New Jersey.....	CC	AA			
Pennsylvania.....	10.3	15.4	West Region.....	16.7	CC
North Central Region.....	34.5	56.5	Pacific Division.....	EE	CC
East North Central Division.....	FF	GG	California.....	EE	CC
Ohio.....	2.1	19.4			
Indiana.....	BB	BB	<b>PLAIN BEARINGS AND BUSHINGS, UNMOUNTED (35681)</b>		
Illinois.....	15.8	22.0	United States.....	121.0	109.5
Michigan.....	2.8	BB	Northeast Region.....	31.0	26.5
Wisconsin.....	CC	CC	New England Division.....	9.5	7.9
West North Central Division.....	BB	BB	Massachusetts.....	BB	AA
Minnesota.....	BB	BB	Connecticut.....	CC	CC
South Region.....	AA	1.0	Middle Atlantic Division.....	21.6	18.6
East South Central Division.....	AA	( <sup>1</sup> )	New Jersey.....	12.7	6.5
Tennessee.....	AA	( <sup>1</sup> )	Pennsylvania.....	CC	9.9
West Region.....	CC	5.0	North Central Region.....	65.2	58.8
Pacific Division.....	CC	5.0	East North Central Division.....	GG	55.4
California.....	CC	5.0	Ohio.....	27.8	28.8
			Indiana.....	15.4	9.1
			Illinois.....	6.2	3.8
			Michigan.....	BB	8.1
			Wisconsin.....	8.4	5.6
			West North Central Division.....	BB	3.4
			Missouri.....	AA	AA
			Nebraska.....	BB	AA
			South Region.....	7.2	1.6
			South Atlantic Division.....	BB	1.6
			South Carolina.....	BB	AA
			East South Central Division.....	BB	( <sup>1</sup> )
			Tennessee.....	BB	( <sup>1</sup> )
			West Region.....	17.6	22.6
			Pacific Division.....	EE	FF
			California.....	EE	FF
<b>FUEL-FIRED INDUSTRIAL FURNACES, OVENS, METAL PROCESSING (35672)</b>			<b>OTHER MECHANICAL POWER TRANSMISSION EQUIPMENT (35683)</b>		
United States.....	97.2	155.7	United States.....	854.0	604.5
Northeast Region.....	33.9	37.2	Northeast Region.....	144.9	113.0
Middle Atlantic Division.....	33.4	34.2	New England Division.....	59.4	50.5
New York.....	1.6	( <sup>1</sup> )	New Hampshire.....	AA	( <sup>1</sup> )
New Jersey.....	7.6	CC	Massachusetts.....	43.5	35.6
Pennsylvania.....	24.2	27.8	Connecticut.....	14.0	13.0
North Central Region.....	57.0	109.7	Middle Atlantic Division.....	85.5	63.0
East North Central Division.....	52.6	105.5	New York.....	40.7	25.0
Ohio.....	27.4	74.3	New Jersey.....	8.7	5.7
Indiana.....	AA	BB	Pennsylvania.....	36.0	32.4
Illinois.....	BB	11.0			
Michigan.....	14.8	18.8	North Central Region.....	590.5	405.2
Wisconsin.....	BB	CC	East North Central Division.....	559.3	383.5
West North Central Division.....	4.4	4.2	Ohio.....	39.1	33.0
Minnesota.....	BB	BB	Indiana.....	182.4	( <sup>1</sup> )
South Region.....	2.3	5.0	Illinois.....	113.3	135.1
South Atlantic Division.....	AA	BB	Michigan.....	130.9	98.3
West Region.....	4.0	3.8	Wisconsin.....	93.7	63.6
Pacific Division.....	4.0	BB	West North Central Division.....	31.1	21.7
California.....	BB	BB	Minnesota.....	10.8	7.5
			Iowa.....	EE	BB
			Nebraska.....	CC	( <sup>1</sup> )
			Kansas.....	BB	CC
<b>HF INDUCTION, DIELECTRIC HEATING EQUIPMENT AND PARTS (35673)</b>					
United States.....	147.0	149.0			
Northeast Region.....	65.6	65.5			
New England Division.....	8.6	13.1			
Massachusetts.....	1.6	5.8			
Connecticut.....	CC	CC			
Middle Atlantic Division.....	57.0	52.5			
New York.....	8.7	8.7			
New Jersey.....	19.2	16.9			
Pennsylvania.....	29.1	26.9			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER MECHANICAL POWER TRANSMISSION EQUIPMENT (35683)--Continued			FILTERS AND STRAINERS (35692)--Continued		
South Region.....	102.5	62.6	North Central Region.....	67.0	(NA)
South Atlantic Division.....	39.7	32.3	East North Central Division.....	63.9	(NA)
Maryland.....	EE	EE	Ohio.....	11.6	(NA)
Virginia.....	17.4	14.5	Indiana.....	EE	(NA)
North Carolina.....	AA	( <sup>1</sup> )	Illinois.....	14.0	(NA)
Georgia.....	BB	BB	Michigan.....	17.8	(NA)
Florida.....	CC	( <sup>1</sup> )	Wisconsin.....	CC	(NA)
East South Central Division.....	FF	21.5	West North Central Division.....	3.2	(NA)
Kentucky.....	FF	FF	Minnesota.....	BB	(NA)
Tennessee.....	EE	( <sup>1</sup> )			
West South Central Division.....	FF	8.9	South Region.....	57.4	(NA)
Arkansas.....	BB	( <sup>1</sup> )	South Atlantic Division.....	27.1	(NA)
Oklahoma.....	AA	( <sup>1</sup> )	Maryland.....	CC	(NA)
Texas.....	16.2	CC	North Carolina.....	EE	(NA)
			Florida.....	CC	(NA)
West Region.....	16.1	23.7	East South Central Division.....	16.2	(NA)
Mountain Division.....	CC	BB	Kentucky.....	BB	(NA)
Colorado.....	CC	BB	Tennessee.....	EE	(NA)
Pacific Division.....	EE	EE	West South Central Division.....	14.1	(NA)
Oregon.....	AA	AA	Oklahoma.....	CC	(NA)
California.....	CC	17.4	Texas.....	CC	(NA)
PACKING AND PACKAGING MACHINERY, N.E.C. (35691)			West Region.....	55.0	(NA)
United States.....	177.4	<sup>3</sup> (NA)	Mountain Division.....	FF	(NA)
Northeast Region.....	49.0	(NA)	Colorado.....	BB	(NA)
New England Division.....	19.6	(NA)	Utah.....	EE	(NA)
New Hampshire.....	BB	(NA)	Pacific Division.....	FF	(NA)
Massachusetts.....	EE	(NA)	California.....	FF	(NA)
Middle Atlantic Division.....	29.4	(NA)			
New York.....	11.0	(NA)	ALL OTHER GENERAL INDUSTRIAL MACHINERY, N.E.C. (35699)		
New Jersey.....	9.3	(NA)	United States.....	535.5	<sup>3</sup> (NA)
Pennsylvania.....	9.1	(NA)	Northeast Region.....	200.6	(NA)
			New England Division.....	33.4	(NA)
North Central Region.....	83.4	(NA)	New Hampshire.....	BB	(NA)
East North Central Division.....	74.0	(NA)	Massachusetts.....	12.3	(NA)
Ohio.....	EE	(NA)	Rhode Island.....	CC	(NA)
Indiana.....	BB	(NA)	Connecticut.....	11.2	(NA)
Illinois.....	29.2	(NA)			
Michigan.....	7.1	(NA)	Middle Atlantic Division.....	166.8	(NA)
Wisconsin.....	22.0	(NA)	New York.....	63.0	(NA)
West North Central Division.....	9.4	(NA)	New Jersey.....	24.9	(NA)
Minnesota.....	9.1	(NA)	Pennsylvania.....	78.8	(NA)
South Region.....	22.2	(NA)	North Central Region.....	222.5	(NA)
South Atlantic Division.....	12.6	(NA)	East North Central Division.....	192.9	(NA)
Maryland.....	AA	(NA)	Ohio.....	24.6	(NA)
Georgia.....	7.3	(NA)	Indiana.....	16.7	(NA)
Florida.....	BB	(NA)	Illinois.....	31.4	(NA)
East South Central Division.....	CC	(NA)	Michigan.....	78.3	(NA)
Kentucky.....	CC	(NA)	Wisconsin.....	42.0	(NA)
West Region.....	22.8	(NA)	West North Central Division.....	29.6	(NA)
Mountain Division.....	BB	(NA)	Minnesota.....	15.8	(NA)
Utah.....	BB	(NA)	Missouri.....	12.8	(NA)
Nevada.....	AA	(NA)			
Pacific Division.....	EE	(NA)	South Region.....	74.6	(NA)
Washington.....	AA	(NA)	South Atlantic Division.....	42.0	(NA)
California.....	17.2	(NA)	Maryland.....	CC	(NA)
			Virginia.....	6.7	(NA)
FILTERS AND STRAINERS (35692)			West Virginia.....	BB	(NA)
United States.....	275.4	<sup>3</sup> (NA)	North Carolina.....	10.7	(NA)
Northeast Region.....	96.0	(NA)	Georgia.....	6.6	(NA)
New England Division.....	44.2	(NA)	Florida.....	7.1	(NA)
New Hampshire.....	AA	(NA)	East South Central Division.....	6.8	(NA)
Massachusetts.....	FF	(NA)	Alabama.....	CC	(NA)
Connecticut.....	FF	(NA)	West South Central Division.....	25.8	(NA)
Middle Atlantic Division.....	51.8	(NA)	Oklahoma.....	14.7	(NA)
New York.....	20.2	(NA)	Texas.....	EE	(NA)
New Jersey.....	13.0	(NA)			
Pennsylvania.....	18.5	(NA)	West Region.....	38.1	(NA)
			Mountain Division.....	1.2	(NA)
			Pacific Division.....	36.9	(NA)
			Oregon.....	CC	(NA)
			California.....	FF	(NA)

See footnotes on next page.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

(Footnotes for table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

- Represents zero. (NA) Not available.

<sup>1</sup>This State or division was not shown as a separate line in table 6B in the 1967 report for this industry.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 12 percent of the total 1967 shipments at the U.S. level.

<sup>3</sup>The individual product codes included in this class of product for 1972 differ significantly from the prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments at the U.S. level.

<sup>4</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this product class represent approximately 5 percent of the 1967 shipments at the total U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3561	Pumps and pumping equipment.....	1,632.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35611	Industrial pumps, except hydraulic fluid power pumps.....	611.9	589.0	587.0	495.0	440.6	436.9	321.9	295.4
35612	Hydraulic fluid power pumps.....	<sup>2</sup> 261.6	237.9	257.3	269.9	243.5	<sup>2</sup> 218.6	134.9	76.8
35613	Domestic water system and pumps, jacks and cylinders.....	151.1	176.8	158.0	119.8	151.4	140.3	83.7	67.7
35615	Pumps and pumping equipment, n.e.c.....	<sup>3</sup> 186.4	(NA)	(NA)	(NA)	(NA)	126.2	91.9	88.0
35616	Parts and attachments for pumps.....	346.5	423.5	<sup>4</sup> 412.0	<sup>4</sup> 406.4	<sup>4</sup> 348.6	<sup>4</sup> 383.6	<sup>4</sup> 250.1	<sup>4</sup> 180.2
35610	Pumps and compressors, n.s.k.....	75.4	16.0	(23.6)	50.4	53.7	69.6	18.4	11.8
3562	Ball and roller bearings.....	1,418.7	1,258.2	1,295.3	1,396.0	1,293.7	1,292.2	961.0	636.8
35621	Ball bearings, complete.....	474.2	390.1	426.4	484.9	474.1	472.7	384.1	289.1
35622	Taper, (except thrust) roller bearings, complete.....	420.0	405.6	405.1	416.3	377.8	367.7	} 446.3	} 269.3
35623	Other roller bearings, complete.....	280.9	250.9	246.9	254.0	231.1	225.0		
35624	Mounted bearings, except plain.....	100.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35629	Parts and components for ball and roller bearings.....	138.2	97.7	100.5	133.2	111.8	118.7	65.0	41.1
35620	Ball and roller bearings, n.s.k.....	4.5	12.0	(9.3)	(9.7)	(9.0)	12.1	3.3	2.3
3563	Air and gas compressors.....	<sup>5</sup> 722.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35631	Air and gas compressors and vacuum pumps <sup>6</sup> .....	480.8	<sup>5</sup> 462.3	504.6	486.9	486.3	<sup>5</sup> 501.0	292.3	260.2
35632	Parts and attachments for air and gas compressors.....	148.4	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
35635	Industrial spraying equipment.....	<sup>3</sup> 93.5	(NA)	(NA)	(NA)	(NA)	71.3	56.1	35.9
3564	Blowers and fans.....	682.0	693.4	646.5	566.6	491.9	499.1	299.4	252.9
35643	Centrifugal fans and blowers.....	181.0	} 355.0	} 355.0	} 323.8	} 277.2	} 294.9	} 191.2	} 170.6
35644	Propeller fans and accessories, axial fans, etc.....	159.9							
35645	Dust collection equipment for air-conditioning systems.....	121.3	} 313.1	} 267.8	} 224.3	} 197.1	} 182.5	} 95.0	} 70.1
35646	Dust collection equipment for gas cleaning systems.....	198.0							
35640	Blowers and fans, n.s.k.....	21.8	(25.3)	(23.7)	18.5	17.6	21.7	13.2	12.2
35650	Industrial patterns, except shoe patterns.....	234.4	214.0	214.4	235.0	216.6	233.7	159.9	121.3
35660	Speed changers, industrial high-speed drives, and gears, n.s.k.	593.0	(531.6)	(566.1)	(563.8)	(552.5)	569.3	345.9	245.3
3567	Industrial furnaces and ovens.....	341.1	335.8	377.4	381.5	374.2	415.9	237.7	184.8
35671	Electrical industrial furnaces and ovens, metal processing..	67.5	111.5	123.4	100.9	99.5	90.8	44.7	35.7
35672	Fuel-fired industrial furnaces and ovens, metal processing..	97.2	108.9	136.1	136.9	135.0	155.7	76.6	75.5
35673	High frequency induction dielectric heating equipment and parts.....	147.0	103.2	106.7	127.3	121.0	149.0	109.9	67.7
35670	Industrial furnaces and ovens, n.s.k.....	29.4	(12.2)	(11.2)	16.4	18.7	20.3	6.5	6.1
3568	Power transmission equipment, n.e.c.....	975.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35681	Plain bearings and bushings.....	121.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
35683	Other mechanical power transmission equipment.....	854.0	693.0	720.7	745.3	662.5	604.5	449.5	310.4
3569	General industrial machinery, n.e.c.....	1,132.8	873.5	920.0	1,047.2	961.5	899.8	664.3	467.4
35691	Packing and packaging machinery, n.e.c.....	177.4	} 873.5	} 920.0	} 1,047.2	} 961.5	} 899.8	} 664.3	} 467.4
35692	Filters and strainers.....	275.4							
35699	All other general industrial machinery, n.e.c.....	535.5							
35690	General industrial machinery, n.e.c.....	144.5							

(NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parenthesis for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 12 percent of the total 1967 shipments at the U.S. level.

<sup>3</sup>The individual product codes included in this class of product for 1972 differ significantly from the prior year. Products shifting into or out of this class of product represent more than 15 percent of the total shipments at the U.S. level.

<sup>4</sup>For 1958 to 1971, value of parts and attachments for air and gas compressors is included with the value of parts and attachments for pumps.

<sup>5</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this product class represent approximately 5 percent of the 1967 shipments at the total U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost		
				(million dollars)		
	INDUSTRY 3561.--PUMPS AND PUMPING EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	727.3		
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	45.1	12.7		
331012	Sheet and strip.....	..do.....	15.9	3.5		
331013	Plates.....	..do.....	30.1	6.1		
331015	Structural shapes.....	..do.....	7.9	1.7		
331019	All other carbon steel mill shapes and forms.....	..do.....	39.3	12.6		
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	19.9	8.1		
331029	All other alloy steel.....	..do.....	3.6	2.2		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.7	2.7		
331050	All other stainless steel mill shapes and forms.....	..do.....	7.8	13.3		
	Copper and copper-base alloy:					
335790	Insulated wire and cable.....	Mil.lb.(copper content).	4.4	3.2		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	3.0	2.8		
335143	Plate, sheet, and strip, including military cups and discs.....	..do.....	.6	.5		
335152	Pipe and tube.....	..do.....	3.4	3.9		
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....	..do.....	1.0	.8		
335008	All other aluminum mill shapes and forms (sheet, plate, foil, wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	.3		
	Primary metals:					
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	(NA)	7.7		
333122	Copper and copper-base alloy refinery shapes.....	..do.....	2.6	2.5		
999811	Iron and steel scrap (excluding home scrap).....	..do.....	18.7	.9		
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	..do.....	142.2	77.3		
332045	Steel.....	..do.....	20.4	49.9		
336100	Aluminum and aluminum-base alloy.....	Million lb....	10.6	12.1		
336200	Copper and copper-base alloy.....	..do.....	15.2	19.9		
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	7.5	6.3		
	Engines: <sup>1</sup>					
351920	Diesel and semidiesel.....	1,000 units...	1.5	4.2		
351901	Gasoline and other carburetor.....	..do.....	72.3	6.9		
	Electric motors and generators: <sup>1</sup>					
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	..do.....	2,126.6	39.6		
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	639.5	60.4		
	Bearings:					
356218	Ball.....	.....	(X)	8.7		
356201	Roller.....	.....	(X)	6.4		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	222.2		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	127.9		
	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3562.--BALL AND ROLLER BEARINGS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 551.2	(X)	462.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	88.0	29.8	34.1	10.8
331012	Sheet and strip.....	..do.....	99.2	25.5	71.9	16.3
331017	Wire and wire products.....	..do.....	3.0	.6	56.4	20.3
331013	Plates.....	..do.....	(NA)	9.6	11.5	4.2
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	162.7	66.6	114.3	44.3
331029	All other alloy mill shapes and forms.....	..do.....	212.4	106.0	216.2	110.9
	Stainless steel:					
331033	Sheet and strip.....	..do.....	4.7	4.8	2.7	4.1
331050	All other stainless steel mill shapes and forms.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3562.--BALL AND ROLLER BEARINGS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms, except castings:					
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	2.6	2.6	3.1	2.5
335143	Plate, sheet, and strip, including military cups and discs.....	...do.....				
335152	Pipe and tube.....	...do.....				
333122	Copper and copper-base alloy refinery shapes.....	1,000 s. tons.	(D)	(D)	(D)	(D)
	Scrap (excluding home scrap):					
999811	Iron and steel.....	...do.....	(D)	(D)	(D)	(D)
999812	Copper and copper-base alloy.....	...do.....	-	-	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....	19.4	9.8	23.7	10.0
332045	Steel.....	...do.....	5.7	4.9	9.3	6.7
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	...do.....	5.3	6.0	4.0	4.7
339915	Metal powders.....	...do.....	1.2	.6	(D)	(D)
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.	29.9	23.0	31.3	22.1
	Bearings:					
356218	Ball.....	.....	(X)	19.2	(X)	15.6
356201	Roller.....	.....	(X)	11.6	(X)	7.7
356295	Balls, rollers, cages, collars, racea, and other antifriction bearing components and parts.....	.....	(X)	87.8	(X)	102.0
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	121.0	(X)	<sup>3</sup> 74.3
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	16.8	(X)	5.8
Material			Unit of measure	1972		
				Quantity	Delivered cost (million dollars)	
	INDUSTRY 3563.--AIR AND GAS COMPRESSORS					
	Materials, parts, containers, and supplies, total.....			(X)	347.9	
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.		9.3	2.7	
331012	Sheet and strip.....	...do.....		12.7	3.7	
331013	Plates.....	...do.....		18.8	3.7	
331015	Structural shapes.....	...do.....		19.1	1.5	
331019	All other carbon steel mill shapes and forms.....	...do.....		.7	3.5	
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....		5.0	2.4	
331029	All other alloy steel.....	...do.....		1.0	1.5	
	Stainless steel:					
331033	Sheet and strip.....	...do.....		.5	.7	
331050	All other stainless steel mill shapes and forms.....	...do.....		1.0	1.1	
	Copper and copper-base alloy:					
335790	Insulated wire and cable.....	Mill lb. (copper content).		.4	.4	
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....		1.3	1.0	
335143	Plate, sheet, and strip, including military cups and discs.....	...do.....		.1	.1	
335152	Pipe and tube.....	...do.....		1.1	1.4	
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....	...do.....		.3	.3	
335008	All other aluminum mill shapes and forms (sheet, plate, foil, wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....		(NA)	1.1	
	Primary metals:					
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.		(NA)	.5	
333122	Copper and copper-base alloy refinery shapes.....	...do.....		-	-	
999811	Iron and steel scrap (excluding home scrap).....	...do.....		14.6	.7	
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....		52.0	31.9	
332045	Steel.....	...do.....		7.5	8.8	
336100	Aluminum and aluminum-base alloy.....	Million lb....		3.7	4.7	
336200	Copper and copper-base alloy.....	...do.....		2.5	2.9	
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.		9.2	16.1	

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost (million dollars)		
INDUSTRY 3563.--AIR AND GAS COMPRESSORS--Continued						
Materials, parts, containers, and supplies--Continued						
Engines: <sup>1</sup>						
351920	Diesel and semidiesel.....	1,000 units...	4.1	12.0		
351901	Gasoline and other carburetor.....	...do.....	27.7	13.3		
Electric motors and generators: <sup>1</sup>						
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	...do.....	215.7	5.1		
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	214.6	21.9		
Bearings:						
356218	Ball.....	.....	(X)	2.4		
356201	Roller.....	.....	(X)	1.9		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	187.5		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	13.1		
	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3564.--BLOWERS AND FANS						
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 285.9	(X)	187.6
Mill shapes and forms (except castings):						
Carbon steel:						
331011	Bars and bar shapes.....	1,000 s. tons.	25.7	5.8	14.8	2.9
331012	Sheet and strip.....	..do.....	293.6	22.4	91.0	15.2
331013	Plates.....	..do.....	45.3	9.1	24.3	4.2
331015	Structural shapes.....	..do.....	9.6	2.1	5.4	1.1
331017	Wire and wire products.....	..do.....	(NA)	1.4	1.2	.8
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	2.3	7.0	1.5
331020	Alloy steel, except stainless.....	..do.....	(NA)	2.4	8.1	2.3
Stainless steel:						
331033	Sheet and strip.....	..do.....	1.6	3.1	1.5	2.3
331050	All other stainless steel mill shapes and forms.....	..do.....	.9	1.4		
Copper and copper-base alloy:						
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	11.4	11.3	(NA)	3.8
335143	Plate, sheet, and strip.....	..do.....				
335152	Pipe and tube.....	..do.....				
Aluminum and aluminum-base alloy:						
335301	Sheet, plate, and foil.....	..do.....	(NA)	7.1	18.8	7.2
335008	All other aluminum mill shapes and forms.....	..do.....	(NA)	1.3	2.6	1.1
331051	Pig iron.....	1,000 s. tons.	(D)	(D)	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	..do.....	(D)	(D)	(D)	(D)
Castings (rough and semifinished): <sup>1</sup>						
332011	Iron (gray and malleable).....	..do.....	(NA)	9.6	7.5	3.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	4.1	(NA)	3.8
336200	Copper and copper-base alloy.....	..do.....	(NA)	.2	(D)	(D)
Electric motors and generators: <sup>1</sup>						
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	.7	677.4	12.1
362115	Other fractional horsepower electric motors.....	..do.....	550.4	12.3		
362120	Integral horsepower motors and generators.....	..do.....	(NA)	10.4		
Bearings:						
356218	Ball.....	.....	(X)	3.8	(X)	3.1
356201	Roller.....	.....	(X)	1.2	(X)	.4
382201	Automatic temperature controls (thermostats, regulators, etc.)....	.....	(X)	1.0	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	120.9	(X)	<sup>3</sup> 79.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	51.9	(X)	32.3
INDUSTRY 3565.--INDUSTRIAL PATTERNS						
	Materials, components, parts, containers, and supplies, total.....		(X)	29.1	(X)	29.9
Mill shapes and forms (except castings):						
Carbon steel:						
331011	Bars and bar shapes.....	1,000 s. tons.	.9	.6	(NA)	.2
331012	Sheet and strip.....	..do.....	(NA)	.1	(NA)	.2
331013	Plates.....	..do.....	(NA)	.3	(NA)	.4
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967		
			Quantity	Delivered cost	Quantity	Delivered cost	
				(million dollars)		(million dollars)	
	INDUSTRY 3565.--INDUSTRIAL PATTERNS--Continued						
	Materials, components, parts, containers, and supplies--Con.						
	Mill shapes and forms (except castings):						
	Alloy steel (except stainless):						
331021	Bars and bar shapes.....	1,000 s. tons.	.4	.2	(NA)	.1	
331029	All other alloy steel mill shapes and forms.....	...do.....					
	Stainless steel:						
331033	Sheet and strip.....	...do.....	(Z)	.1			
331050	All other stainless steel mill shapes and forms.....	...do.....					
	Copper and copper-base alloy:						
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(NA)	(Z)	(NA)	.1	
335143	Plate, sheet and strip (including military cups and discs)....	...do.....					
335152	Pipe and tube.....	...do.....					
	Aluminum and aluminum-base alloy:						
335301	Sheet, plate and foil.....	...do.....	(NA)	.2	(NA)	.4	
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	(NA)	.1	(NA)	(Z)	
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(NA)	.4	(NA)	.1	
	Castings (rough and semifinished): <sup>1</sup>						
332011	Iron (gray and malleable).....	1,000 s. tons.	2.3	2.1	2.1	1.5	
332045	Steel.....	...do.....	.3	.3	(NA)	.2	
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.9	1.8	(NA)	2.1	
336200	Copper and copper-base alloy.....	...do.....	.2	.2	(NA)	.1	
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	7.6	(X)	10.9	
972000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	15.1	(X)	13.6	
				Unit of measure		1972	
	Material				Quantity	Delivered cost	
						(million dollars)	
	INDUSTRY 3566.--SPEED CHANGERS, DRIVES, AND GEARS						
	Materials, components, parts, containers, and supplies, total.....				(X)	194.5	
	Mill shapes and forms, except castings:						
	Carbon steel:						
331011	Bars and bar shapes.....	1,000 s. tons.			26.7	8.6	
331012	Sheet and strip.....	...do.....			4.3	.9	
331013	Plates.....	...do.....			14.1	2.7	
331017	Wire and wire products.....	...do.....			.5	.1	
331019	All other carbon steel mill shapes and forms.....	...do.....			4.9	2.3	
	Alloy steel, except stainless:						
331021	Bars and bar shapes.....	...do.....			21.1	7.5	
331029	All other alloy steel mill shapes and forms.....	...do.....			13.5	6.3	
	Stainless steel:						
331033	Sheet and strip.....	...do.....			.2	.4	
331050	All other stainless steel mill shapes and forms.....	...do.....			.3	1.0	
	Copper and copper-base alloy:						
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....			(NA)	.7	
335152	Pipe and tube.....	...do.....			.5	.5	
335143	Plate, sheet, and strip, including military cups and discs.....	...do.....			( <sup>4</sup> )	( <sup>4</sup> )	
333122	Copper and copper-base alloy refinery shapes.....	1,000 s. tons.			.3	.6	
	Scrap (excluding home scrap):						
999811	Iron and steel.....	...do.....			23.1	.8	
999812	Copper and copper-base alloy.....	...do.....			.1	(Z)	
	Castings (rough and semifinished): <sup>1</sup>						
332011	Iron (gray and malleable).....	...do.....			33.5	16.7	
332045	Steel.....	...do.....			4.0	4.4	
336100	Aluminum and aluminum-base alloy.....	Million lb....			1.6	1.7	
336200	Copper and copper-base alloy.....	...do.....			3.5	5.9	
339915	Metal powders.....	...do.....			1.1	.8	
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.			19.3	11.3	
	Bearings:						
356218	Ball.....	.....			(X)	2.6	
356201	Roller.....	.....			(X)	6.2	
356295	Balls, rollers, cages, collars, races, and other antifriction bearing components, and parts...	.....			(X)	1.8	
970099	All other materials and components, parts, containers, and supplies consumed.....	.....			(X)	65.4	
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....			(X)	45.3	

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3567.--INDUSTRIAL FURNACES AND OVENS					
	Materials, components, parts, containers, and supplies, total.		(X)	177.9	(X)	198.3
	Mill shapes and forms (except castings):					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	(NA)	6.4	27.0	4.6
331013	Plates.....	..do.....	24.9	5.5	52.7	9.2
331015	Structural shapes.....	..do.....	14.9	3.6	27.8	4.9
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	2.0	9.6	2.1
331020	Alloy steel (except stainless).....	..do.....	(NA)	9.2	12.3	20.2
331033	Stainless steel:					
331050	Sheet and strip.....	..do.....	3.9	7.6		
	All other stainless steel mill shapes and forms.....	..do.....	1.1	2.5		
335102	Copper and copper-base alloy:					
	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	.7	.8	5.7	4.5
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	(NA)	1.0		
335152	Pipe and tube.....	..do.....	(NA)	1.7		
335301	Aluminum and aluminum-base alloy:					
335405	Sheet, plate, and foil.....	..do.....	2.9	1.2	(NA)	4.4
335008	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)..	..do.....	(NA)	.6		
	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....				
332045	Castings (rough and semifinished): <sup>1</sup>					
	Steel.....	1,000 s. tons.	(NA)	3.1	4.5	2.6
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	105.0	(X)	101.7
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	27.7	(X)	44.1
	Material		Unit of measure		1972	
					Quantity	Delivered cost (million dollars)
	INDUSTRY 3568.--POWER TRANSMISSION EQUIPMENT, N.E.C.					
	Materials, components, parts, containers, and supplies, total.....				(X)	290.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.			73.5	18.4
331012	Sheet and strip.....	..do.....			65.7	15.5
331013	Plates.....	..do.....			30.5	6.1
331017	Wire and wire products.....	..do.....			11.3	2.4
331019	All other carbon steel mill shapes and forms.....	..do.....			20.3	7.7
331021	Alloy steel, except stainless:					
	Bars and bar shapes.....	..do.....			37.8	10.8
331029	All other alloy steel mill shapes and forms.....	..do.....			9.7	4.1
	Stainless steel:					
331033	Sheet and strip.....	..do.....			1.5	2.2
331050	All other stainless steel mill shapes and forms.....	..do.....			.7	1.1
335102	Copper and copper-base alloy:					
	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....			(NA)	44.4
335152	Pipe and tube.....	..do.....			1.0	.6
335143	Plate, sheet, and strip, including military cups and discs.....	..do.....			( <sup>4</sup> )	( <sup>4</sup> )
333122	Copper and copper-base alloy refinery shapes.....	1,000 s. tons.			4.3	4.1
	Scrap (excluding home scrap):					
999811	Iron and steel.....	..do.....			49.4	3.3
999812	Copper and copper-base alloy.....	..do.....			3.0	1.5
332011	Castings (rough and semifinished): <sup>1</sup>					
	Iron (gray and malleable).....	..do.....			78.0	31.8
332045	Steel.....	..do.....			2.9	2.6
336100	Aluminum and aluminum-base alloy.....	Million lb....			3.1	3.6
336200	Copper and copper-base alloy.....	..do.....			2.6	3.5
339915	Metal powders.....	..do.....			6.7	2.4
346200	Iron and steel forgings <sup>1</sup> .....	1,000 s. tons.			43.8	22.5
	Bearings:					
356218	Ball.....				(X)	5.6
356201	Roller.....				(X)	4.3
356295	Balls, rollers, cages, collars, races, and other antifriction bearing components, and parts...				(X)	2.5
970099	All other materials and components, parts, containers, and supplies consumed.....				(X)	119.0
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....				(X)	10.0

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3569.--GENERAL INDUSTRIAL MACHINERY, N.E.C.					
	Materials, components, parts, containers, and supplies, total. ....		(X)	<sup>3</sup> 413.6	(X)	328.0
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	21.8	7.7	40.4	9.2
331012	Sheet and strip.....	...do.....	48.2	13.0	34.7	6.4
331013	Plates.....	...do.....	33.0	8.6	42.2	7.8
331015	Structural shapes.....	...do.....	(NA)	4.1	25.2	5.4
331017	Wire and wire products.....	...do.....	(NA)	1.1	(NA)	.9
331019	All other carbon steel mill shapes and forms.....	...do.....	17.9	4.8	7.6	2.2
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	(NA)	4.9	5.7	2.5
331029	All other alloy steel mill shapes and forms.....	...do.....	(NA)	1.2	5.2	2.8
	Stainless steel:					
331033	Sheet and strip.....	...do.....	(NA)	4.9	5.8	10.2
331050	All other stainless steel mill shapes and forms.....	...do.....	(NA)	5.5		
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(NA)	9.1	1.2	1.0
335143	Plate, sheet, and strip, including military cups and discs....	...do.....			(NA)	1.0
335152	Pipe and tube.....	...do.....			(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	(NA)	2.6	3.9	2.4
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc....	...do.....	2.6	2.2	(NA)	1.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	4.7	2.5	(NA)	1.6
331051	Pig iron, excluding silvery iron.....	1,000 s. tons.	6.1	1.5	(D)	(D)
999811	Iron and steel scrap (excluding home scrap).....	...do.....	(D)	.1	(D)	(D)
	Castings (rough and semifinished): <sup>1</sup>					
332011	Iron (gray and malleable).....	...do.....	25.1	15.1	21.6	10.5
332045	Steel.....	...do.....	(NA)	6.7	5.1	5.1
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.4	2.9	(NA)	3.3
336200	Copper and copper-base alloy.....	...do.....	5.3	5.6	4.3	4.4
	Electric motors and generators: <sup>1</sup>					
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	1,000 units...	(NA)	5.6	124.0	4.8
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	(NA)	6.9	23.9	3.0
	Bearings:					
356218	Ball.....	.....	(X)	1.5	(X)	1.0
356201	Roller.....	.....	(X)	.7	(X)	.7
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	205.3	(X)	<sup>3</sup> 155.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	89.5	(X)	85.4

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than 0.1.

<sup>1</sup>Excludes quantities produced and consumed in the same establishment.

<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

<sup>3</sup>Includes cost for materials indicated by the symbol (D).

<sup>4</sup>For 1972, copper plate, sheet, and strip, etc., is combined with copper rod, bar, etc. (material code 335102).

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3562.--BALL AND ROLLER BEARINGS						
	Purchased fuels and electric energy.....		(X)	20.8	(X)	16.0
	Purchased fuels, total.....		(X)	8.6	(X)	6.5
121005	Coal.....	1,000 s. tons....	31.1	.4	65.7	.4
331212	Coke.....	...do.....	-	-	(Z)	(Z)
	Fuel oil, total.....	1,000 bbl (42 gal)	312.1	1.5	386.5	1.0
291141	Distillate.....	...do.....	74.3	.4	53.0	.2
291151	Residual.....	...do.....	237.9	1.1	333.4	.8
131300	Natural gas.....	Billion ft <sup>3</sup> .....	7.2	5.1	5.8	4.2
960011	Other fuels.....		(X)	.8	(X)	.2
975000	Fuels, n.s.k.....		(X)	.8	(X)	.7
960012	Purchased electric energy.....	Million kWh.....	1,051.2	12.2	919.9	9.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.6	-	4.3	-
INDUSTRY 3564.--BLOWERS AND FANS						
	Purchased fuels and electric energy.....		(X)	5.9	(X)	(NA)
	Purchased fuels, total.....		(X)	2.2	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1.7	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	134.6	.6	(NA)	(NA)
291141	Distillate.....	...do.....	35.1	.2	(NA)	(NA)
291151	Residual.....	...do.....	99.5	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.6	1.5	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	221.4	3.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.3	-	(NA)	(NA)
INDUSTRY 3567.--INDUSTRIAL FURNACES AND OVENS						
	Purchased fuels and electric energy.....		(X)	2.9	(X)	(NA)
	Purchased fuels, total.....		(X)	.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	21.0	.1	(NA)	(NA)
291141	Distillate.....	...do.....	10.4	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	10.6	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.9	.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	149.8	2.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.4	-	(NA)	(NA)
INDUSTRY 3569.--GENERAL INDUSTRIAL MACHINERY, N.E.C.						
	Purchased fuels and electric energy.....		(X)	8.4	(X)	6.4
	Purchased fuels, total.....		(X)	2.8	(X)	2.4
121005	Coal.....	1,000 s. tons....	2.7	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	110.3	.5	(NA)	(NA)
291141	Distillate.....	...do.....	88.5	.5	(NA)	(NA)
291151	Residual.....	...do.....	21.8	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.0	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.9	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	417.2	5.6	299.5	4.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.7	-	1.6	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.





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# Office, Computing, and Accounting Machines

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# EXPLANATORY TEXT

## OFFICE, COMPUTING, AND ACCOUNTING MACHINES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

3573—Electronic Computing Equipment

3574—Calculating and Accounting Machines, Except Electronic Computing Equipment\*

3576—Scales and Balances, Except Laboratory

3572 } Typewriters; Office Machines, N.E.C.  
3579 }

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3573.—ELECTRONIC COMPUTING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing electronic computers and peripheral equipment and/or major logical components intended for use in electronic computer systems. Included are general-purpose electronic analog computers, electronic digital computers, military, ruggedized, and special-purpose computers. The electronic computers may be used for data processing or may be incorporated as components of control equipment for industrial use

\*Note that the "short title" for this industry is used throughout the report.

and as components of equipment used in weapons and weapons systems, space and oceanographic exploration, transportation, and other systems. Electronic computer systems contain high-speed arithmetic and program control units, on-line information storage devices, input/output equipment, terminals, data communication devices, and punched card equipment.

In addition to providing technical manuals necessary for the operation and maintenance of the equipment, establishments in this industry usually furnish general-purpose computer programs and basic operating systems programs needed for effective use of the computer system. Establishments primarily producing rebuilt electronic computers are also included in this industry. For a detailed list of products of industry 3573, refer to table 6A, product codes 35731 11 to 35733 51.

Establishments primarily engaged in manufacturing desk calculators, cash registers, accounting machines, and similar equipment that are operator-paced are classified in industry 3574; electrical and electronic test equipment in industry 3825 (Instruments to Measure Electricity); industrial controls, including electronic, in industry 3622 (Industrial Controls); and industrial process instruments in industry 3823 (Process Control Instruments).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electronic Computing Equipment Industry in 1972 totaled \$6,387 million. This included shipments of electronic computing equipment (primary products) valued at \$5,568 million, shipments of other products (secondary products) valued at \$453 million, and miscellaneous receipts of \$365 million.

Shipments of electronic computing equipment (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent.

Shipments of electronic computing equipment (primary products) from establishments classified in industry 3573 in 1972 represented 91 percent (coverage ratio) of these products valued at \$6,108 million shipped by all industries. In 1967, the coverage ratio was 87 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail



portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3573, these establishments accounted for 4 percent of value of shipments.

#### **INDUSTRY 3574.—CALCULATING AND ACCOUNTING MACHINES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing desk calculators, adding and accounting machines, cash registers, and similar equipment. Included are electronic calculating and accounting machines which, even when augmented by attachments, or which include program control, or have input/output capabilities, must be paced by operator intervention. For a detailed list of products of industry 3574, refer to table 6A, product codes 35741 21 to 35745 31.

Establishments primarily engaged in manufacturing electronic computing equipment are classified in industry 3573; typewriters, office duplicating machines and devices, autographic registers, and other office machines are classified in industry 3579.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Calculating and Accounting Machines Industry in 1972 totaled \$637 million. This included shipments of calculating and accounting machines (primary products) valued at \$595 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) of \$24 million.

Shipments of calculating and accounting machines (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of calculating and accounting machines (primary products) from establishments classified in industry 3574 in 1972 represented 86 percent (coverage ratio) of these products valued at \$694 million shipped by all industries. In 1967, the coverage ratio was 84 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3574, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3576.—SCALES AND BALANCES, EXCEPT LABORATORY**

This industry comprises establishments primarily engaged in manufacturing weighing and force-measuring machines and devices of all types. For a detailed list of products of industry 3576, refer to table 6A, product codes 35760 13 to 35760 84.

Establishments primarily engaged in manufacturing measuring machines and devices regarded as scientific apparatus for laboratory and experimental work are classified in industry 3811 (Engineering and Scientific Instruments).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Scales and Balances, Except Laboratory, Industry in 1972 totaled \$199 million. This included shipments of scales and balances, except laboratory, (primary products) valued at \$172 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts of \$11 million.

Shipments of scales and balances, except laboratory, (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent.

Shipments of scales and balances, except laboratory, (primary products) from establishments classified in industry 3576 in 1972 represented 95 percent (coverage ratio) of these products valued at \$182 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at



the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3576, these establishments accounted for 2 percent of value of shipments.

**INDUSTRY 3572.—TYPEWRITERS and  
INDUSTRY 3579.—OFFICE MACHINES, N.E.C.**

The Typewriters Industry includes establishments primarily engaged in manufacturing typewriters and parts, including coded media typewriters and specialized composing typewriters. This industry is combined with the Office Machines, N.E.C., Industry which includes establishments primarily engaged in manufacturing office machines and devices, not elsewhere classified. For a detailed list of products of these industries, refer to table 6A, product codes 35793 11 to 35798 41.

Establishments primarily engaged in manufacturing computing machines are classified in industry 3573, cash registers in industry 3574, and photocopy and microfilm equipment in industry 3861 (Photographic Equipment and Supplies).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for these industries as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. However, it

was necessary to combine industry 3572, Typewriters, with industry 3579, Office Machines, N.E.C., to avoid disclosing the operations of individual companies.

Value of shipments and other receipts of the Typewriters and Office Machines, N.E.C., Industries in 1972 totaled \$1,296 million. This included shipments of typewriters and office machines, n.e.c., (primary products) valued at \$913 million, shipments of other products (secondary products) valued at \$237 million, and miscellaneous receipts (mainly resales) of \$146 million.

Shipments of typewriters and office machines, n.e.c., (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of carbon paper and inked ribbons (\$99 million).

Shipments of typewriters and office machines, n.e.c., (primary products) from establishments classified in industries 3572 and 3579 in 1972 represented 87 percent (coverage ratio) of these products valued at \$1,047 million shipped by all industries. In 1967, the coverage ratio was 89 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industries 3572 and 3579, these establishments accounted for 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3573.--ELECTRONIC COMPUTING EQUIPMENT <sup>2</sup>															
1972 Census.....	601	354	144.6	1,667.2	64.5	130.3	546.1	3,410.7	2,978.9	6,387.0	212.7	(NA)	1,571.6	92	91
1971 ASM .....	(NA)	(NA)	153.2	1,498.3	72.3	142.2	540.7	3,155.8	2,631.2	5,700.1	294.5	1,853.6	1,666.8	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	145.7	1,432.3	67.0	133.0	499.2	2,816.9	2,520.3	5,232.4	296.2	1,634.6	1,603.8	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	139.9	1,324.1	69.8	144.1	503.4	2,729.6	2,609.3	5,112.2	269.2	1,083.9	1,469.2	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	108.7	981.2	55.4	117.3	378.5	2,241.1	1,992.6	4,163.4	122.5	799.3	1,080.4	(NA)	(NA)
1967 Census.....	178	140	98.9	803.5	50.7	104.2	314.5	1,926.4	1,875.6	3,770.9	117.1	696.5	985.6	96	87
INDUSTRY 3574.--CALCULATING AND ACCOUNTING MACHINES															
1972 Census.....	79	30	22.6	207.2	17.8	33.4	152.5	407.1	256.7	637.2	19.1	(NA)	216.8	97	86
1971 ASM .....	(NA)	(NA)	23.1	194.9	17.9	33.6	134.9	343.8	175.9	529.5	17.5	235.9	199.2	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	28.5	234.9	23.7	44.4	182.2	408.0	183.5	588.6	22.1	217.8	206.6	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	35.4	261.5	29.5	55.6	203.4	680.8	255.7	893.0	28.2	241.5	274.7	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	37.0	265.5	30.4	54.1	202.4	559.6	226.8	772.7	29.7	282.3	275.3	(NA)	(NA)
1967 Census <sup>3</sup> .....	138	51	38.4	294.4	31.3	58.6	219.8	518.2	198.2	707.8	32.6	294.6	206.8	85	84
INDUSTRY 3576.--SCALES AND BALANCES, EXCEPT LABORATORY															
1972 Census .....	96	43	6.5	58.4	4.0	8.5	32.1	129.1	73.7	198.6	5.7	(NA)	47.5	92	95
1971 ASM .....	(NA)	(NA)	5.6	45.8	3.6	7.6	26.2	88.7	53.1	146.1	5.1	41.2	38.6	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	6.6	51.0	4.1	8.4	28.2	102.7	57.5	157.3	4.4	38.4	42.6	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	7.2	59.7	4.8	9.5	31.8	117.3	70.6	180.0	*3.1	33.6	47.4	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	6.3	44.7	4.2	7.7	23.3	87.5	51.6	139.3	*2.5	30.5	34.2	(NA)	(NA)
1967 Census.....	76	34	6.5	45.6	4.3	8.5	24.0	90.0	51.3	140.2	5.1	32.9	36.1	93	96
1966 ASM .....	(NA)	(NA)	6.7	44.9	4.5	9.4	25.5	86.9	49.2	130.7	3.0	(NA)	36.8	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.5	40.6	4.2	8.6	23.0	73.0	44.2	114.7	2.0	(NA)	8.4	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	5.8	36.1	3.8	7.8	20.6	62.8	36.8	100.8	1.7	25.4	22.3	(NA)	(NA)
1963 Census.....	85	35	5.8	35.1	3.7	7.7	19.9	64.4	35.3	98.5	1.1	23.4	24.0	92	97
1962 ASM .....	(NA)	(NA)	5.2	29.1	3.4	7.0	16.5	49.8	27.7	77.7	1.0	22.8	17.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	5.2	28.9	3.5	7.3	16.7	49.7	26.4	74.8	.8	(NA)	17.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	5.0	26.8	3.4	7.0	15.6	48.3	24.1	70.4	1.3	(NA)	15.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	5.4	27.8	3.6	7.4	16.1	50.0	29.1	80.9	*1.8	(NA)	15.4	(NA)	(NA)
1958 Census .....	72	32	5.3	26.6	3.5	6.9	15.0	49.1	27.8	78.3	1.4	(NA)	17.2	91	97
INDUSTRY 3572.--TYPEWRITERS <sup>4</sup> and INDUSTRY 3579.--OFFICE MACHINES, N.E.C.															
1972 Census.....	217	97	34.4	342.5	20.8	40.9	168.7	867.4	416.4	1,296.1	49.4	(NA)	245.4	79	87
INDUSTRY 3572.--TYPEWRITERS															
1971 ASM .....	(NA)	(NA)	17.0	152.5	11.0	20.2	78.4	509.4	164.5	678.9	23.5	225.3	128.1	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	19.2	164.3	12.7	24.7	92.6	446.4	203.8	635.1	21.5	208.1	135.8	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	20.5	160.7	13.8	26.6	90.9	412.6	167.6	593.2	24.7	203.5	120.4	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	22.9	162.1	16.4	32.7	100.0	407.4	178.6	583.3	26.0	199.9	122.6	(NA)	(NA)
1967 Census.....	25	17	26.0	172.1	19.9	39.3	116.6	454.7	155.2	595.5	20.1	178.6	113.8	86	99
1966 ASM .....	(NA)	(NA)	21.9	145.3	17.0	34.7	97.1	424.1	136.4	533.9	19.6	(NA)	94.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	18.6	116.6	14.0	27.3	74.2	298.3	98.6	395.6	12.5	(NA)	65.1	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	17.7	108.8	13.4	26.2	71.3	288.2	91.8	379.4	9.1	139.0	61.3	(NA)	(NA)
1963 Census.....	21	16	18.0	102.9	13.9	27.1	71.1	243.2	79.6	315.4	9.6	132.2	65.2	85	99
1962 ASM .....	(NA)	(NA)	17.8	96.7	14.0	27.5	69.3	206.9	79.7	290.7	10.1	127.1	55.1	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	18.5	93.8	14.8	28.7	68.1	195.8	75.4	270.5	8.3	(NA)	58.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	19.1	93.0	15.3	29.7	68.1	201.2	75.5	283.0	10.3	(NA)	55.1	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	19.7	93.6	16.1	31.3	71.6	188.7	71.8	265.4	7.4	(NA)	60.8	(NA)	(NA)
1958 Census .....	18	13	19.8	84.5	16.3	29.7	64.6	168.9	67.7	238.2	9.9	(NA)	64.4	82	99
INDUSTRY 3579.--OFFICE MACHINES, N.E.C.															
1971 ASM .....	(NA)	(NA)	19.4	170.0	11.4	22.0	81.0	376.6	216.5	603.6	17.7	217.6	171.8	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	21.7	183.4	13.6	26.6	95.3	409.0	213.0	612.0	13.4	207.6	185.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	22.2	181.9	14.6	29.6	102.7	425.5	226.6	641.2	16.5	202.2	175.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	21.0	157.1	13.7	26.8	89.0	346.9	207.0	558.4	17.3	185.4	147.6	(NA)	(NA)
1967 Census.....	177	77	20.7	146.6	13.5	26.6	82.1	342.5	192.5	516.6	17.8	175.2	138.1	89	77
1966 ASM .....	(NA)	(NA)	19.1	130.7	13.4	26.6	77.5	311.0	174.3	466.4	*13.6	(NA)	112.8	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	18.2	116.1	12.5	24.2	67.3	247.9	150.0	399.3	10.0	(NA)	90.6	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	16.8	108.0	11.6	23.4	63.4	242.1	129.0	368.1	10.1	155.6	90.8	(NA)	(NA)
1963 Census.....	161	75	17.0	104.1	11.6	23.0	63.3	224.7	126.7	349.2	16.3	147.6	89.8	81	81
1962 ASM .....	(NA)	(NA)	*19.2	*115.0	*13.2	*26.5	*57.9	*255.8	*103.1	*374.4	*7.9	133.1	*92.4	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	18.9	110.8	13.0	26.2	64.4	239.0	93.9	351.1	7.2	(NA)	83.7	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	16.6	98.9	11.8	23.9	59.9	223.3	90.9	321.2	8.5	(NA)	81.4	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	15.6	86.6	10.9	21.2	52.7	191.1	99.0	292.9	9.7	(NA)	65.6	(NA)	(NA)
1958 Census .....	120	72	15.6	83.0	10.6	21.2	50.1	173.4	90.6	264.5	11.8	(NA)	67.2	84	84

See footnotes on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industries 3572 and 3579	Industry 3573	Industry 3574	Industry 3576
1972.....	206	518	74	86
1967.....	190	134	132	69
1963.....	175	(NA)	213	81

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The value of shipments and cost of materials for this industry include extensive duplication arising from shipments between establishments in the same industry classification.

<sup>3</sup>Comparable data are not available prior to 1967.

<sup>4</sup>Separate data cannot be published for industry 3572, Typewriters, without revealing the operations of individual companies. Accordingly, industry 3572 has been combined with industry 3579, Office Machines, N.E.C., for 1972.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3573.--ELECTRONIC COMPUTING EQUIPMENT											
1972 Census.....	11,529	(NA)	45	2,020	4.19	.47	.73	(NA)	23,587	49	26.22
1971 ASM.....	10,628	12,090	44	1,969	4.12	.45	.73	.37	20,354	52	23.48
1970 ASM.....	9,830	10,670	46	1,985	3.75	.48	.76	.29	19,334	51	21.18
1969 ASM.....	9,465	7,740	50	2,064	3.49	.51	.77	.21	19,511	48	18.94
1968 ASM.....	9,027	7,350	51	2,117	3.23	.48	.71	.19	20,617	44	19.11
1967 Census.....	8,124	7,040	51	2,057	3.02	.50	.71	.18	19,478	42	18.49
INDUSTRY 3574.--CALCULATING AND ACCOUNTING MACHINES											
1972 Census.....	9,168	(NA)	79	1,871	4.58	.40	.73	(NA)	18,013	51	12.23
1971 ASM.....	8,437	10,210	78	1,877	4.02	.33	.70	.45	14,749	57	10.14
1970 ASM.....	8,130	7,640	81	1,855	4.09	.29	.58	.37	19,015	43	12.64
1969 ASM.....	7,387	6,820	83	1,885	3.66	.29	.58	.27	19,232	38	12.25
1968 ASM.....	7,176	7,960	82	1,780	3.74	.29	.64	.37	15,124	47	10.34
1967 Census.....	7,673	7,670	81	1,874	3.75	.28	.70	.42	13,508	57	8.85
INDUSTRY 3576.--SCALES AND BALANCES, EXCEPT LABORATORY											
1972 Census.....	8,984	(NA)	61	2,125	3.78	.37	.67	(NA)	19,861	45	15.19
1971 ASM.....	8,179	7,360	64	2,111	3.45	.36	.68	.28	15,839	52	11.67
1970 ASM.....	7,727	5,810	62	2,049	3.36	.37	.69	.24	15,561	50	12.23
1969 ASM.....	8,292	4,670	67	1,979	3.35	.39	.72	.19	16,292	51	12.35
1968 ASM.....	7,095	4,840	67	1,833	3.03	.37	.69	.22	13,889	51	11.36
1967 Census.....	7,003	5,060	66	1,978	2.84	.37	.69	.23	13,810	51	10.62
1966 ASM.....	6,674	(NA)	66	2,107	2.72	.38	.72	(NA)	12,902	52	9.26
1965 ASM.....	6,295	(NA)	65	2,048	2.69	.39	.74	(NA)	11,317	56	8.53
1964 ASM.....	6,205	4,380	65	2,060	2.64	.36	.72	.25	10,807	57	8.05
1963 Census.....	6,080	4,030	65	2,061	2.59	.36	.71	.24	11,164	54	8.38
1962 ASM.....	5,623	4,380	65	2,067	2.36	.36	.73	.29	9,625	58	7.14
1961 ASM.....	5,518	(NA)	66	2,098	2.29	.35	.74	(NA)	9,469	58	6.81
1960 ASM.....	5,322	(NA)	68	2,050	2.23	.34	.72	(NA)	9,565	56	6.89
1959 ASM.....	5,164	(NA)	66	2,070	2.18	.36	.70	(NA)	9,271	56	6.78
1958 Census.....	4,970	(NA)	66	1,959	2.17	.36	.69	(NA)	9,187	54	7.13

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3572.--TYPEWRITERS <sup>1</sup> and INDUSTRY 3579.--OFFICE MACHINES, N.E.C.											
1972 Census.....	9,956	(NA)	60	1,966	4.12	.32	.59	(NA)	25,784	39	21.69
INDUSTRY 3572.--TYPEWRITERS											
1971 ASM.....	8,971	13,250	65	1,836	3.88	.24	.47	.33	29,965	30	25.22
1970 ASM.....	8,557	10,840	66	1,945	3.75	.32	.58	.33	23,250	37	18.07
1969 ASM.....	7,839	9,930	67	1,928	3.42	.28	.55	.34	20,127	39	15.51
1968 ASM.....	7,079	8,730	72	1,994	3.06	.31	.58	.34	17,790	40	12.46
1967 Census.....	6,621	6,870	76	1,977	2.97	.26	.55	.30	17,490	38	11.58
1966 ASM.....	6,625	(NA)	77	2,048	2.80	.26	.53	(NA)	19,332	34	12.21
1965 ASM.....	6,272	(NA)	75	1,953	2.72	.25	.54	(NA)	16,045	39	10.92
1964 ASM.....	6,155	7,850	76	1,957	2.72	.24	.53	.37	16,295	38	10.99
1963 Census.....	5,709	7,720	77	1,942	2.62	.25	.58	.42	13,493	42	8.98
1962 ASM.....	5,433	7,140	79	1,961	2.52	.27	.61	.44	11,624	47	7.51
1961 ASM.....	5,059	(NA)	80	1,931	2.37	.28	.63	(NA)	10,563	48	6.83
1960 ASM.....	4,867	(NA)	80	1,943	2.29	.27	.60	(NA)	10,532	46	6.78
1959 ASM.....	4,753	(NA)	82	1,942	2.29	.27	.62	(NA)	9,580	50	6.02
1958 Census.....	4,271	(NA)	82	1,824	2.17	.28	.64	(NA)	8,538	50	5.68
INDUSTRY 3579.--OFFICE MACHINES, N.E.C.											
1971 ASM.....	8,763	11,270	59	1,930	3.68	.36	.64	.36	19,412	45	17.12
1970 ASM.....	8,452	9,570	63	1,956	3.58	.35	.65	.34	18,848	45	15.38
1969 ASM.....	8,194	9,110	66	2,027	3.47	.35	.64	.32	19,167	43	14.38
1968 ASM.....	7,481	8,830	65	1,956	3.32	.37	.65	.33	16,519	45	12.94
1967 Census.....	7,091	8,460	65	1,970	3.09	.37	.66	.34	16,573	43	12.90
1966 ASM.....	6,838	(NA)	70	1,982	2.92	.37	.65	(NA)	16,273	42	11.71
1965 ASM.....	6,378	(NA)	69	1,935	2.78	.38	.67	(NA)	13,618	47	10.24
1964 ASM.....	6,421	9,260	69	2,022	2.71	.35	.64	.42	14,395	45	10.36
1963 Census.....	6,128	8,680	68	1,980	2.75	.36	.66	.42	13,231	46	9.77
1962 ASM.....	5,981	6,930	69	2,002	2.57	.28	.58	.36	13,308	45	9.66
1961 ASM.....	5,875	(NA)	69	2,014	2.45	.27	.58	(NA)	12,669	46	9.11
1960 ASM.....	5,967	(NA)	71	2,020	2.51	.28	.59	(NA)	13,470	44	9.35
1959 ASM.....	5,560	(NA)	70	1,948	2.49	.34	.63	(NA)	12,267	45	9.03
1958 Census.....	5,311	(NA)	68	2,003	2.36	.34	.66	(NA)	11,099	48	8.17

(NA) Not available.

<sup>1</sup>Separate data cannot be published for industry 3572, Typewriters, without revealing the operations of individual companies. Accordingly, industry 3572 has been combined with industry 3579, Office Machines, N.E.C., for 1972.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3573-- ELECTRONIC COMPUTING EQUIPMENT													
UNITED STATES. . . . .	601	354	144.6	1 667.2	64.5	130.3	546.1	3 410.7	2 978.9	6 387.0	212.7	(NA)	(NA)
NORTHEAST REGION. . . . .	200	117	44.3	498.8	19.3	36.7	160.7	1 105.1	1 161.6	2 286.1	83.9	FF	(D)
NEW ENGLAND DIVISION. . . . . E1	80	46	17.3	178.1	7.9	15.9	60.2	551.9	242.8	763.8	36.3	FF	(D)
NEW HAMPSHIRE. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS. . . . . E1	65	37	14.9	151.5	7.1	14.3	54.6	494.6	219.3	691.2	34.2	FF	(D)
CONNECTICUT. . . . .	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	120	71	27.0	320.7	11.4	20.8	100.5	553.2	918.8	1 522.3	47.6	25.8	431.2
NEW YORK. . . . .	53	34	19.3	241.1	8.0	14.4	74.4	371.1	828.7	1 272.0	(D)	FF	(D)
NEW JERSEY. . . . .	41	22	4.7	46.6	2.2	4.1	17.1	125.3	58.4	166.3	17.9	2.5	52.9
PENNSYLVANIA. . . . .	26	15	3.0	33.0	1.2	2.3	9.0	56.7	31.8	84.1	(D)	FF	(D)
NORTH CENTRAL REGION. . . . .	87	50	26.9	301.9	13.5	28.1	121.0	522.7	523.6	1 090.5	24.9	23.1	455.5
EAST NORTH CENTRAL DIVISION. . . . . E1	45	20	6.6	70.6	3.9	8.0	39.5	63.5	101.9	191.7	5.9	4.3	44.0
OHIO. . . . .	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . . ED	8	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN. . . . .	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	27.5
WISCONSIN. . . . .	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	42	30	20.3	231.3	9.6	20.1	81.5	459.2	421.7	898.8	19.0	18.8	411.4
MINNESOTA. . . . .	29	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI. . . . .	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH DAKOTA. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	99	45	19.2	219.1	9.0	19.2	71.4	466.5	399.2	864.1	22.2	FF	(D)
SOUTH ATLANTIC DIVISION. . . . .	57	29	9.7	123.2	3.9	8.3	33.3	158.8	258.3	414.3	14.1	FF	(D)
MARYLAND. . . . .	11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VIRGINIA. . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA. . . . .	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
FLORIDA. . . . .	30	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	34	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OKLAHOMA. . . . .	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS. . . . .	26	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION. . . . .	215	142	54.2	647.2	22.6	46.2	193.0	1 316.4	894.4	2 146.2	81.7	31.4	549.2
MOUNTAIN DIVISION. . . . .	37	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WYOMING. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO. . . . .	17	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ARIZONA. . . . .	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
UTAH. . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	178	117	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON. . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	170	113	41.0	495.0	16.7	34.1	142.2	888.2	584.0	1 435.1	(D)	FF	(D)
3574-- CALCULATING, ACCOUNTING MACHINES													
UNITED STATES. . . . .	79	30	22.6	207.2	17.8	33.3	152.5	407.1	256.7	637.2	19.0	(NA)	(NA)
NORTHEAST REGION. . . . .	26	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	30.5
NEW ENGLAND DIVISION. . . . .	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.3
MASSACHUSETTS. . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	7.2
CONNECTICUT. . . . .	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	15	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	21.2
NEW YORK. . . . .	9	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	17.8
PENNSYLVANIA. . . . .	2	-	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	21	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	16	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS. . . . .	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN. . . . .	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION. . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
KANSAS. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH ATLANTIC DIVISION. . . . .	8	4	2.7	19.4	2.2	4.6	15.3	39.4	42.0	73.2	2.2	EE	(D)
DELAWARE. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
ARKANSAS. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS. . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	15	6	2.1	16.1	1.5	2.5	8.8	39.0	36.1	63.1	2.0	FF	(D)
MOUNTAIN DIVISION. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	.8
NEW MEXICO. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA. . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

Footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3576-- SCALES, BALANCES, EXC. LABORATORY													
UNITED STATES. . . . .	96	43	6.5	58.4	4.0	8.5	32.1	129.1	73.7	198.6	5.7	(NA)	(NA)
NORTHEAST REGION. . . . .	25	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	34.9
NEW ENGLAND DIVISION. . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VERMONT. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION. . . . .	18	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK. . . . .	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY. . . . .	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION. . . . .	38	20	3.5	31.4	2.1	4.6	17.5	75.5	42.4	116.3	4.5	3.5	49.4
EAST NORTH CENTRAL DIVISION. . . . .	32	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	29.4
ILLINOIS. . . . .	15	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION. . . . . E1	22	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.8
PACIFIC DIVISION. . . . . E1	18	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA. . . . . E1	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.7
3572-- AND 3579-- OFFICE MACHINES, TYPEWRITERS, ETC.													
UNITED STATES. . . . .	217	97	34.4	342.5	20.8	40.9	168.7	887.0	416.4	1 296.1	49.4	(NA)	(NA)
NORTHEAST REGION. . . . .	82	42	16.7	141.0	10.9	21.3	77.5	331.9	149.9	498.4	11.2	9.2	130.8
NEW ENGLAND DIVISION. . . . .	24	14	8.0	72.5	4.3	8.4	31.5	163.0	77.4	253.2	6.5	4.5	72.9
NEW HAMPSHIRE. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MASSACHUSETTS. . . . .	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CONNECTICUT. . . . .	10	8	6.1	58.2	3.1	6.0	23.1	103.1	52.5	168.3	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION. . . . .	58	28	8.7	68.5	6.6	12.9	46.0	169.0	72.5	245.2	4.7	4.7	57.9
NEW YORK. . . . .	33	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	26.2
NEW JERSEY. . . . .	20	11	1.7	14.5	1.1	2.3	8.7	31.8	15.8	45.8	.8	2.1	23.3
PENNSYLVANIA. . . . . E2	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.4
NORTH CENTRAL REGION. . . . .	63	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.7	192.7
EAST NORTH CENTRAL DIVISION. . . . .	48	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.6	191.1
OHIO. . . . .	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS. . . . .	29	17	4.4	45.9	2.2	4.4	17.9	96.3	78.8	175.5	3.0	FF	(D)
MICHIGAN. . . . .	9	2	.2	3.4	.2	.5	2.5	6.2	1.9	7.8	.1	(NA)	(NA)
WISCONSIN. . . . .	1	-	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	15	4	.2	2.5	.2	.3	1.4	5.8	2.2	7.8	(D)	(NA)	(NA)
MINNESOTA. . . . .	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	35	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	14.4
SOUTH ATLANTIC DIVISION. . . . .	25	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	14.1
VIRGINIA. . . . .	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH CAROLINA. . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.3
GEORGIA. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	37	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.7
PACIFIC DIVISION. . . . .	32	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.6
WASHINGTON. . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA. . . . . E1	27	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.1

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from the Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over



(See appendix, Explanation of Terms)

Item	Electronic computing equipment (SIC 3573)	Calculating and accounting machines (SIC 3574)	Scales and balances, except laboratory (SIC 3576)	Typewriters; and office machinas, n.e.c. (SIC 3572 and 3579)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT	92	97	92	79
COVER AGE RATIO <sup>2</sup> . . . . .DD ..	91	86	95	87
ESTABLISHMENTS, TOTAL . . . . .NUMBER	601	79	96	217
WITH 1 TO 19 EMPLOYEES. . . . .00 ..	247	49	53	120
WITH 20 TD 99 EMPLOYEES. . . . .DD ..	184	11	26	46
WITH 100 EMPLOYEES OR MORE. . . . .00 ..	170	19	17	51
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . 1,DDD	144.6	22.6	6.5	34.4
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS	1 667.2	207.2	58.4	342.5
PRDUCTION WORKERS:				
AVERAGE FOR YEAR. . . . .1,DDD	64.5	17.8	4.0	20.8
MARCH . . . . .DD ..	61.3	17.6	3.9	21.3
MAY . . . . .DD ..	61.3	18.0	4.0	21.1
AUGUST. . . . .DD ..	65.3	16.7	4.1	20.1
NOVEMBER. . . . .DD ..	70.1	19.4	4.1	20.8
MAN-HOURS . . . . .MILLIONS	130.3	33.4	8.5	40.9
JANUARY-MARCH . . . . .DD ..	30.6	7.2	2.1	10.8
APRIL-JUNE. . . . .DD ..	31.2	8.7	2.2	10.7
JULY-SEPTEMBER. . . . .DD ..	32.3	7.9	2.1	9.5
OCTOBER-DECEMBER. . . . .DD ..	36.4	9.3	2.2	10.5
WAGES . . . . .MILLION DOLLARS	546.1	152.5	32.1	168.7
COST OF MATERIALS, ETC., TOTAL. . . . .DD ..	2 978.9	256.7	73.7	416.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED .DD ..	2 797.3	235.8	66.9	326.1
COST OF REALES . . . . .DD ..	70.4	15.0	3.9	68.9
FUELS CONSUMED. . . . .DD ..	6.4	1.3	.6	3.0
PURCHASED ELECTRIC ENERGY . . . . .DD ..	23.7	2.2	1.0	5.5
CONTRACT WORK . . . . .DD ..	81.1	2.6	1.3	12.9
VALUE OF SHIPMENTS, INCLUDING REALES . . . .DD ..	6 387.0	637.2	198.6	1 296.1
VALUE OF REALES. . . . .DD ..	84.1	18.1	5.9	113.8
VALUE ADDED BY MANUFACTURE. . . . .DD ..	3 410.7	407.1	129.1	887.0
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL. . . . .DD ..	1 492.9	177.1	43.6	234.8
FINISHED PRODUCTS . . . . .DD ..	242.8	16.1	8.2	59.9
WORK IN PROCESS . . . . .DD ..	913.9	121.3	24.1	141.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DD ..	336.3	39.7	11.3	33.1
END OF YEAR, TOTAL. . . . .DD ..	1 571.6	216.8	47.5	245.4
FINISHED PRODUCTS . . . . .DD ..	258.8	21.3	9.7	69.5
WORK IN PROCESS . . . . .DD ..	902.2	142.7	26.7	137.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DD ..	410.7	52.8	11.0	38.2
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . .DD ..	240.0	20.7	6.1	52.7
NEW PLANT AND EQUIPMENT, TOTAL. . . . .DD ..	212.7	19.1	5.7	49.4
NEW STRUCTURES AND ADDITIONS TO PLANT . . .DD ..	49.6	1.7	2.5	17.4
NEW MACHINERY AND EQUIPMENT . . . . .DD ..	163.0	17.3	3.2	32.3
USED PLANT AND EQUIPMENT. . . . .DD ..	27.3	1.6	.4	2.9

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(million dollars)	(1,000)	(millions)					
3573-- ELECTRONIC COMPUTING EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	601	144.6	1 667.2	64.5	130.3	546.1	3 410.7	2 978.9	6 387.0	212.7	1 571.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	119	.2	2.2	.1	.2	.8	3.8	3.7	8.1	1.5	2.1
5 TO 9 EMPLOYEES . . . . . E7	61	.4	4.0	.2	.4	1.4	6.6	5.1	11.7	1.2	3.5
10 TO 19 EMPLOYEES . . . . . E3	67	.9	9.1	.4	.7	2.8	17.5	11.0	27.6	1.4	6.4
20 TO 49 EMPLOYEES . . . . . E1	95	3.0	31.9	1.6	3.0	12.3	53.5	40.0	89.4	4.3	20.8
50 TO 99 EMPLOYEES . . . . .	89	6.2	60.7	3.6	7.2	26.7	108.4	67.7	166.4	11.9	45.2
100 TO 249 EMPLOYEES . . . . .	69	11.1	110.5	6.2	12.7	46.3	238.1	136.3	362.0	14.2	94.2
250 TO 499 EMPLOYEES . . . . .	37	13.2	123.1	7.7	15.3	48.0	237.6	197.5	391.8	13.7	129.8
500 TO 999 EMPLOYEES . . . . .	29	21.1	234.7	10.6	20.0	81.7	526.0	356.4	869.5	22.4	264.0
1,000 TO 2,499 EMPLOYEES . . . . .	22	31.2	345.6	15.0	30.3	126.1	859.3	675.8	1 552.5	46.7	438.7
2,500 EMPLOYEES OR MORE. . . . .	13	57.3	745.4	19.1	40.5	199.9	1 359.9	1 485.4	2 908.0	95.5	566.7
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	112	.4	3.7	.2	.3	1.3	6.8	5.8	12.6	.7	3.6
3574-- CALCULATING, ACCOUNTING MACHINES											
ESTABLISHMENTS, TOTAL. . . . .	79	22.6	207.2	17.8	33.4	152.5	407.1	256.7	637.2	19.1	216.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	28	.1	.4	.1	.1	.3	1.1	.5	1.6	.1	.5
5 TO 9 EMPLOYEES . . . . . E3	10	.1	.6	(2)	.1	.3	2.2	.7	2.9	.1	1.1
10 TO 19 EMPLOYEES . . . . . E6	11	.2	1.5	.1	.2	1.0	4.2	2.2	6.4	.2	1.9
20 TO 49 EMPLOYEES . . . . . E2	6	.2	1.4	.1	.2	.8	3.0	.7	3.7	.1	.5
50 TO 99 EMPLOYEES . . . . .	4	.6	4.9	.4	1.0	2.8	9.7	6.5	16.0	.4	4.9
100 TO 249 EMPLOYEES . . . . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 TO 499 EMPLOYEES . . . . .	7	2.1	17.7	1.6	3.0	9.1	48.3	33.7	79.4	2.5	17.4
500 TO 999 EMPLOYEES . . . . .	4	18.9	175.8	15.1	28.2	135.5	330.6	209.6	516.6	15.6	187.2
1,000 TO 2,499 EMPLOYEES . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 EMPLOYEES OR MORE. . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	28	.1	.7	.1	.1	.5	1.6	.7	2.3	.1	.8
3576-- SCALES, BALANCES, EXC. LABORATORY											
ESTABLISHMENTS, TOTAL. . . . .	96	6.5	58.4	4.0	8.5	32.1	129.1	73.7	198.6	5.7	47.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	27	(Z)	.3	(Z)	.1	.2	.7	.4	1.1	(Z)	.4
5 TO 9 EMPLOYEES . . . . . E6	8	(Z)	.4	(Z)	.1	.2	1.0	.4	1.4	(Z)	.3
10 TO 19 EMPLOYEES . . . . . E3	18	.2	2.2	.1	.3	1.2	4.2	2.2	6.1	.1	1.2
20 TO 49 EMPLOYEES . . . . .	21	.7	6.6	.5	.9	3.3	12.0	9.3	21.1	.1	4.2
50 TO 99 EMPLOYEES . . . . .	5	.4	3.3	.3	.6	2.3	6.6	4.1	10.3	.1	2.4
100 TO 249 EMPLOYEES . . . . .	11	2.0	17.0	1.0	2.1	7.1	34.0	17.5	51.0	3.2	10.0
250 TO 499 EMPLOYEES . . . . .	4	3.1	28.6	2.0	4.5	17.9	70.5	39.9	107.5	2.0	28.9
500 TO 999 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	27	.1	.6	(Z)	.1	.3	1.4	.8	2.2	(Z)	.6
3572-- } OFFICE MACHINES, TYPEWRITERS, ETC. AND 3579-- }											
ESTABLISHMENTS, TOTAL. . . . .	217	34.4	342.5	20.8	40.9	168.7	887.0	416.4	1 296.1	49.4	245.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	78	.1	1.2	.1	.2	.6	2.7	1.4	4.0	.1	1.1
5 TO 9 EMPLOYEES . . . . . E5	29	.2	1.8	.1	.2	.9	4.2	2.2	6.4	.1	1.5
10 TO 19 EMPLOYEES . . . . . E2	13	.2	1.7	.1	.2	.8	4.2	1.7	5.7	.2	1.3
20 TO 49 EMPLOYEES . . . . .	26	.8	7.2	.5	.9	3.7	16.5	8.8	25.6	.3	4.1
50 TO 99 EMPLOYEES . . . . .	20	1.4	12.5	1.0	1.8	6.9	15.8	17.3	35.7	.5	8.7
100 TO 249 EMPLOYEES . . . . .	24	3.7	36.7	2.2	4.4	17.4	73.2	36.8	110.0	4.6	29.4
250 TO 499 EMPLOYEES . . . . .	13	4.7	38.9	3.1	6.2	22.2	94.1	36.0	133.9	3.0	31.7
500 TO 999 EMPLOYEES . . . . .	6	4.0	28.5	3.2	6.7	21.4	118.1	44.4	164.2	.9	16.4
1,000 TO 2,499 EMPLOYEES . . . . .	6	19.4	213.9	10.5	20.4	94.7	558.3	267.7	810.7	39.6	151.3
2,500 EMPLOYEES OR MORE. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	78	.2	1.8	.1	.3	.9	4.1	2.3	6.4	.1	2.0

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manuf-acture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3573	ELECTRONIC COMPUTING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	601	144.6	1 667.2	64.5	130.3	546.1	3 410.7	2 978.9	6 387.0	212.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	561	130.0	1 509.2	57.6	117.4	479.3	3 102.2	2 512.0	5 555.1	201.0
35731	ELECTRONIC COMPUTING EQUIP. (EXC. PARTS ATTACH) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	74	36.2	440.6	14.0	27.9	125.3	838.4	1 245.4	2 146.7	37.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	51	19.9	220.2	8.7	17.5	68.5	543.0	406.4	972.4	19.5
35732	PERIPHERAL EQUIPMENT FOR ELECTRONIC COMPUTERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	173	86.4	1 021.1	37.0	76.8	333.2	2 097.4	1 435.9	3 491.1	150.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	138	37.4	414.1	17.7	35.7	140.5	1 009.7	623.9	1 559.9	66.9
35733	PARTS, ATTACHMENTS FOR ELECTRONIC COMPUTING EQPT. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	120	19.6	181.5	12.3	23.2	78.0	430.2	265.4	675.1	18.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	100	16.2	147.6	10.0	18.7	61.1	381.3	227.5	585.0	16.4
3574	CALCULATING AND ACCOUNTING MACHINES										
	ENTIRE INDUSTRY . . . . .	79	22.6	207.2	17.8	33.4	152.5	407.1	256.7	637.2	19.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	76	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35741	ADDING, CALCULATING MACHINES, EXC. ELECTRONIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	6	2.0	15.7	1.8	3.4	12.6	29.8	9.3	36.4	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35742	ELECTRONIC CALCULATING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	5	4.7	42.3	2.8	5.5	19.9	108.4	109.3	208.4	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35743	ACCOUNTING MACHINES AND CASH REGISTERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	14.9	142.2	12.7	23.3	115.8	255.0	129.0	370.2	11.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	3.3	32.0	2.4	5.1	16.8	59.3	35.4	88.8	3.0
3576	SCALES, BALANCES, EXC. LABORATORY										
	ENTIRE INDUSTRY . . . . .	96	6.5	58.4	4.0	8.5	32.1	129.1	73.7	198.6	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	89	5.4	47.8	3.3	7.0	26.7	108.3	61.7	166.7	5.0
3572 AND 3579	OFFICE MACHINES, TYPEWRITERS, ETC.										
	ENTIRE INDUSTRY . . . . .	217	34.4	342.5	20.8	40.9	168.7	887.0	416.4	1 296.1	49.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	188	26.7	271.8	15.7	30.2	130.4	677.2	299.0	988.6	44.4
35797	TYPEWRITERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	17	13.5	143.6	8.1	15.9	70.0	382.5	189.5	593.8	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35795	MAILING, LETTER HANDLING, AND ADDRESSING MACHS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	17	6.1	64.6	2.9	5.7	23.7	116.1	60.9	188.0	5.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	11	4.9	52.9	2.4	4.5	19.4	90.7	47.2	141.7	(D)
35798	PARTS, ATTACHMENTS FOR DICT'G, DUPL'G, ETC. MACH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	12	.5	5.9	.4	.8	4.0	9.3	3.4	12.3	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	8	.2	1.7	.1	.2	1.0	2.9	1.2	3.9	.1

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3573	Electronic computing equipment.....1972..	6,387.0	5,568.3	453.4	365.3	92	6,108.0	5,568.3	539.7	91
	.....1967..	3,770.9	3,516.5	158.9	95.5	96	4,048.8	3,516.5	532.3	87
3574	Calculating and accounting machines.....1972..	637.2	594.6	18.8	23.8	97	694.2	594.6	99.6	86
	.....1967..	707.8	532.5	95.1	80.2	85	630.8	532.5	98.3	84
3576	Scales and balances, except laboratory...1972..	198.6	172.0	15.4	11.2	92	182.1	172.0	10.1	95
	.....1967..	140.2	125.7	9.7	4.8	93	131.4	125.7	5.7	96
3572	Typewriters <sup>1</sup> .....1972..	1,296.1	912.7	237.4	146.0	79	1,046.9	912.7	134.2	87
3579	Office machines, n.e.c. } .....1967..	1,112.1	825.1	121.9	165.1	87	925.8	825.1	100.7	89
3572	Typewriters.....1967..	595.5	502.9	81.4	11.2	86	508.1	502.9	5.2	99
3579	Office machines, n.e.c.....1967..	516.6	322.2	40.5	153.9	89	417.7	322.2	95.5	77

<sup>1</sup>Separate data cannot be published for industry 3572, Typewriters, without revealing the operations of individual companies. Accordingly, industry 3572 has been combined with industry 3579, Office Machines, N.E.C., for 1972.

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Electronic computing equipment <sup>1</sup> (SIC 3573)	Calculating and accounting machines (SIC 3574)	Scales and balances, except laboratory (SIC 3576)	Typewriters; and office machines, n.e.c. (SIC 3572 and 3579)	All other industries
	Total shipments and miscellaneous receipts.....	(X)	6,387.0	637.2	198.6	1,296.1	(X)
3573	Electronic computing equipment.....	6,108.0	5,568.3	(20-50)	-	(D)	498.7
35731	Electronic computers, except typewriters, peripheral equipment, and parts.....	1,884.3	1,680.2	(under 2)	-	(under 2)	203.9
35732	Peripheral equipment for electronic computers.....	2,745.3	2,582.3	(over 2)	-	(over 2)	138.3
35733	Parts and attachments for electronic computing equipment.....	1,403.2	1,270.6	(over 2)	-	(over 2)	116.5
35730	Electronic computing equipment, n.e.c.....	75.2	35.2	-	-	-	40.0
3574	Calculating and accounting machines.....	694.2	(over 2)	594.6	(over 2)	(over 2)	54.9
35741	Adding and calculating machines, except electronic.....	<sup>2</sup> 457.4	<sup>2</sup> 19.2	<sup>2</sup> 405.5	<sup>2</sup> (over 2)	<sup>2</sup> (over 2)	28.1
35742	Electronic calculating machines.....	225.8	(over 2)	178.1	-	(over 2)	26.8
35743	Accounting machines and cash registers.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
35745	Parts and attachments for adding, calculating, accounting machines, and cash registers.....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
35740	Calculating and accounting machines, n.e.c.....	11.0	-	11.0	-	-	-
35760	Scales and balances, except laboratory.....	182.1	-	-	172.0	-	10.1
3572	Typewriters <sup>3</sup> .....	1,046.9	(over 2)	(over 2)	-	912.7	(over 2)
3579	Office machines, n.e.c.....		(over 2)	(over 2)	-	(D)	(over 2)
35792	Typewriters <sup>3</sup> .....		(D)	(over 2)	-	(D)	(over 2)
35793	Duplicating machines.....		83.6	-	-	79.0	4.6
35794	Dictating, transcribing, and recording machines...	<sup>4</sup> 254.7	<sup>4</sup> (over 2)	<sup>4</sup> (over 2)	-	<sup>4</sup> 170.5	<sup>4</sup> (over 2)
35795	Mailing, letter handling, and addressing machines.	128.6	(under 2)	-	-	122.6	(over 2)
35796	All other office machines, n.e.c.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
35798	Parts and attachments for addressing, dictating, duplicating, and other office and store machines, n.e.c.....	(D)	(under 2)	-	-	(D)	(over 2)
35790	Office machines, n.e.c.....	18.0	-	-	-	18.0	-

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Electronic computing equipment <sup>1</sup> (SIC 3573)	Calculating and accounting machines (SIC 3574)	Scales and balances, except laboratory (SIC 3576)	Typewriters; and office machines, n.e.c. (SIC 3572 and 3579)	All other industries
	Other product shipments by 4-digit product group:						
2645	Die-cut paper and board.....	(X)	-	-	-	(over 2)	(X)
2893	Printing ink.....	(X)	-	-	-	(over 2)	(X)
3315	Steel wire and related products.....	(X)	-	-	-	7.3	(X)
3444	Sheet metalwork.....	(X)	-	-	(under 2)	(over 2)	(X)
3469	Metal stampings, n.e.c.....	(X)	(over 2)	-	(under 2)	(over 2)	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	-	-	(over 2)	(X)
3536	Hoists, cranes, and monorails.....	(X)	-	(under 2)	-	-	(X)
3551	Food products machinery.....	(X)	-	-	4.0	(over 2)	(X)
3555	Printing trades machinery.....	(X)	(over 2)	-	-	(over 2)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	4.6	-	-	(over 2)	(X)
3641	Electric lamps.....	(X)	-	-	-	-	(X)
3662	Radio and TV communication equipment.....	(X)	3.6	-	(under 2)	-	(X)
3674	Semiconductors and related devices.....	(X)	(over 2)	-	-	-	(X)
3679	Electronic components, n.e.c.....	(X)	(over 2)	-	(Z)	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	-	-	(over 2)	(X)
3811	Engineering and scientific instruments.....	(X)	-	(under 2)	-	-	(X)
3823	Process control instruments.....	(X)	-	-	(under 2)	-	(X)
3825	Instruments to measure electricity.....	(X)	4.9	-	-	-	(X)
3861	Photographic equipment and supplies.....	(X)	-	-	-	(over 2)	(X)
3873	Watches, clocks, and watchcases.....	(X)	-	-	-	(over 2)	(X)
3955	Carbon paper and inked ribbons.....	(X)	-	-	-	98.8	(X)
	Miscellaneous receipts, total.....	(X)	365.3	23.8	11.2	146.0	(X)
93000 00	Contract work.....	(X)	13.5	.4	.2	1.9	(X)
99980 13	Sale of scrap and refuse.....	(X)	4.4	.3	.1	.4	(X)
99980 41	Receipts for research and developmental work.....	(X)	41.6	.6	3.0	3.3	(X)
99980 61	Receipts for repair work.....	(X)	70.4	.8	1.1	20.2	(X)
99980 98	Other miscellaneous receipts.....	(X)	165.0	3.6	2.9	6.4	(X)
99989 00	Resales.....	(X)	70.4	18.1	3.9	113.8	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries		
	Listing of other industries with over \$2 million shipments of the primary products			Listing of other industries with over \$2 million shipments of the primary products--Continued			
3573	2522 Metal office furniture.....	(2-5)	3574	3674 Semiconductors and related devices.	(10-20)		
	3442 Metal doors, sash, and trim.....	(over 2)		3825 Instruments to measure electricity.	(20-50)		
	3662 Radio and TV communication equipment.....	48.2	3576	3533 Oil field machinery.....	(over 2)		
	3672 Cathode ray television picture tubes.....	(over 2)		3629 Electrical industrial apparatus, n.e.c.....	(over 2)		
	3673 Electron tubes, transmitting.....	(5-10)					
	3674 Semiconductors and related devices.....	(5-10)	3572 and 3579	2641 Paper coating and glazing.....	(5-10)		
	3679 Electronic components, n.e.c.....	(200-500)		2761 Manifold business forms.....	(over 2)		
	3823 Process control instruments.....	(over 2)		3315 Steel wire and related products....	(10-20)		
	3825 Instruments to measure electricity.....	7.2		3552 Textile machinery.....	(over 2)		
				3555 Printing trades machinery.....	(50-100)		
				3662 Radio and TV communication equipment.....	(over 2)		
3574	3581 Automatic merchandising machines..	(over 2)		3861 Photographic equipment and supplies.....	(2-5)		
	3622 Industrial controls.....	(over 2)		3873 Watches, clocks, and watchcases....	(over 2)		
	3651 Radio and TV receiving sets.....	(over 2)					

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>The product class structure for this industry has been significantly changed effective in 1972.

<sup>2</sup>Data for 1972 product code 35741 00, adding and calculating machines, include data for product codes 35743 00, accounting machines and cash registers; and 35745 00, parts and attachments for adding, calculating, and accounting machines, and cash registers.

<sup>3</sup>These products were previously identified as product class 35720.

<sup>4</sup>For 1972, data for product code 35794 00, dictating, transcribing, and recording machines, are included with product code 35796 00, all other office machines, n.e.c., to avoid disclosing data for individual companies.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)				
		1972	1967			
3573- --	ELECTRONIC COMPUTING EQUIPMENT, TOTAL <sup>1 2</sup> .....	6,108.0	4,048.8			
35731 00	Electronic Computers: As reported in the census of manufactures <sup>3 4</sup> .....	<sup>5</sup> 1,884.3	<sup>5</sup> 3,123.0			
	As reported in Current Industrial Reports series MA-35R <sup>3 4</sup> .....	<sup>5</sup> 1,836.6	<sup>5</sup> 2,946.3			
35731 11	Digital: General purpose.....	1,534.0	} (5)			
35731 13	Special purpose.....	256.3				
35731 22	Analog.....	17.8				
35731 25	Hybrid.....	28.5				
35732 00	Peripheral Equipment for Electronic Computers: As reported in the census of manufactures <sup>3 4</sup> .....	<sup>5</sup> 2,745.3	(5)			
	As reported in Current Industrial Reports series MA-35R <sup>3 4</sup> .....	<sup>5</sup> 2,685.3	(5)			
35732 32	Auxiliary storage equipment: Direct access storage units such as magnetic disk and drum, and magnetic card and bulk core memory.....	1,004.5	} (5)			
35732 34	Serial access auxiliary storage units such as magnetic tape units.....	513.0				
35732 36	Input-output equipment: Card key entry devices.....	64.3				
35732 38	Magnetic media key entry devices.....	68.4				
35732 41	Systems oriented punched card equipment.....	55.0				
35732 51	Optical scanning devices.....	15.4				
35732 53	Magnetic ink recognition devices.....	295.8				
35732 55	Graphic displays.....	29.1				
35732 61	Printers.....	126.0				
35732 63	Industrial control input-output equipment including analog-to-digital converters, digital-to-analog converters, and sensor interfaces.....	196.1				
35732 65	All other input-output devices including plotters, paper tape readers, paper tape punches, etc., and off-line punched card equipment, such as tabulators, collators, sorters, and interpreters.....	30.2				
35732 71	Computer terminals: Alphanumeric display terminals based on CRT displays, typically include keyboard and sometimes a serial printer or type cassette (usually designed to operate with voice grade communication facilities).....	83.5	} (5)			
35732 73	Multifunction terminals.....	108.7				
35732 75	Special purpose terminals.....	95.2				
35732 81	Digital communications interface equipment: Line interface equipment, such as modems (adapters, data sets).....	134.4				
35732 83	Multiplexors, including frequency division and time division multiplexors.....	158.7	} (5)			
35732 89	Other types of peripheral equipment.....	16.0				
35733 --	Parts and Attachments for Electronic Computing Equipment.....	1,403.2	906.4			
	Parts for computers and peripheral equipment: Produced by complete machine manufacturers: For computers: As reported in the census of manufactures <sup>3 4</sup> .....	495.2	<sup>6</sup> 709.8			
35733 20	As reported in Current Industrial Reports series MA-35R <sup>3 4</sup> .....	465.7	<sup>6</sup> 670.4			
35733 30	For peripheral equipment: As reported in the census of manufactures <sup>3 4</sup> .....	614.9	(6)			
	As reported in Current Industrial Reports series MA-35R <sup>3 4</sup> .....	607.7	(6)			
35733 41	Produced by other than complete machine manufacturers: For computers.....	134.4	} <sup>6</sup> 196.6			
35733 51	For peripheral equipment.....	158.7				
35730 00	Electronic computing equipment, n.s.k., for establishments with 10 employees or more. (See note.)....	59.2	18.5			
35730 02	Electronic computing equipment, n.s.k., for establishments with less than 10 employees. (See note.)...	16.0	-			
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3574- --	CALCULATING AND ACCOUNTING MACHINES, TOTAL <sup>1</sup> .....		(X) 694.2	(X)	630.8	
35741 --	Adding and Calculating Machines, Except Electronic:					
35741 00	As reported in the census of manufactures <sup>3</sup> .....		(X) <sup>7</sup> 444.2	(X)	<sup>8</sup> 464.3	
	As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....		(X) <sup>7</sup> 425.5	(X)	132.6	
35741 21	Adding machines: 10 keyboard (hand and electric).....	Units.....	} (X) 41.1	539,697	40.4	
35741 27	Full keyboard, hand and electromechanical.....			74,470	11.3	
35741 31	Calculating machines: Printing calculators.....		(7) (7)	93,879	34.1	
35741 35	Rotary and key-driven calculators, hand and electromechanical.....		- -	77,770	46.8	

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3574- --	CALCULATING AND ACCOUNTING MACHINES--Continued					
35742 --	Electronic Calculating Machines:					
35742 00	As reported in the census of manufactures <sup>3</sup> .....	Units.....	(X)	225.8	(X)	( <sup>8</sup> )
	As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....		<sup>3</sup> 927,841	<sup>3</sup> 221.0		
	General and/or commercial types:					
35742 36	Display.....	...do.....	619,224	57.2	( <sup>9</sup> )	( <sup>9</sup> )
35742 37	Printing.....	...do.....	199,544	60.9		
35742 38	Technical and/or scientific types.....	...do.....	109,073	102.8		
35743 --	Accounting Machines and Cash Registers:					
35743 00	As reported in the census of manufactures.....	...do.....	(X)	( <sup>7</sup> )	(X)	( <sup>8</sup> )
	As reported in Current Industrial Reports series MA-35R.....	...do.....	(X)	( <sup>7</sup> )	(X)	( <sup>9</sup> )
	Accounting machines and cash registers:					
35743 11	Accounting and bookkeeping machines, including billing machines with accounting registers and electronic accounting machine-type data terminals.....					
35743 51	Cash registers, including adding machines with cash drawers.		( <sup>7</sup> )	( <sup>7</sup> )		
35743 53	Electronic cash register type point of sale retail devices, including data capturing control registers.....				( <sup>9</sup> )	( <sup>9</sup> )
35743 61	Coded document sorting machines (excluding punchcard equipment).....		-	-		
35743 95	Rebuilt adding, calculating accounting machines, and cash registers.....		( <sup>7</sup> )	( <sup>7</sup> )		
35743 41	Coin and currency handling machines.....					
35743 98	Other calculating and accounting machines except electronic computers and peripheral equipment for electronic computing systems, n.e.c.....		(X)	<sup>7</sup> 384.4	(X)	48.5
35745 --	Parts and Attachments for Adding, Calculating, Accounting Machines and Cash Registers.....				(X)	131.7
35745 10	Produced by complete machine manufacturers:					
	As reported in the census of manufactures <sup>3</sup> .....		( <sup>7</sup> )	( <sup>7</sup> )	(X)	122.9
	As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....		( <sup>7</sup> )	( <sup>7</sup> )	(X)	<sup>9</sup> 394.8
35745 31	Produced by other than complete machine manufacturers.....		(X)	13.2	(X)	8.9
35740 00	Calculating and accounting machines, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	6.5	(X)	29.2
35740 02	Calculating and accounting machines, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.5	(X)	5.6
3576- --	SCALES AND BALANCES, TOTAL.....		(X)	182.1	(X)	131.4
35760 13	Motor truck scales.....	1,000 units...	2.0	13.8		
35760 15	Railroad track scales.....	...do.....	.1	1.7	4.9	18.8
	Industrial scales:					
35760 21	Bench and portable.....		(X)	13.2	(X)	8.9
35760 23	Floor scales, including built-in and dormant.....		(X)	8.8	(X)	6.9
35760 25	Predetermined weighing and check weighing scales, all types, except automatic bulk material weighers, fillers, and batching proportioners.....		(X)	9.1	(X)	9.9
35760 27	Automatic bulk material weighers, predetermined weight type, for weighing, filling, batching, and proportioning.....		(X)	15.4	(X)	10.6
35760 29	Miscellaneous industrial scales, including special purpose, crane, suspension, tank, hopper, force measuring devices, and conveyor scales (weigh and feed) for bulk materials.....		(X)	21.6	(X)	18.7
	Retail and commercial scales:					
35760 31	Computing.....	1,000 units...	16.6	31.2		
35760 35	Miscellaneous, including noncomputing counter, cotton beams and steel yards, egg-grading scales, and hanging scales for retail use.....		(X)	6.5	(X)	19.6
	Household and person weighing scales:					
35760 41	Bathroom.....	1,000 units...	5,773.6	18.2	3,719.7	13.8
35760 45	Person weighing scales (coin operated and free weighing) and miscellaneous household scales, including kitchen, baby scales, etc.....		(X)	8.1	(X)	1.8
35760 51	Mailing and parcel post scales.....	1,000 units...	950.8	3.3	(NA)	3.2
35760 82	Accessories and attachments (sold separately).....		(X)	3.5	(X)	2.3
35760 84	Parts for scales and balances (sold for assembly elsewhere, repair, service, etc.).....		(X)	14.8	(X)	8.6
35760 00	Scales and balances, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	10.7	(X)	6.9
35760 02	Scales and balances, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.2	(X)	1.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3572- -- 3579- --	TYPEWRITERS..... OFFICE MACHINES, N.E.C.....	.....	(X)	1,046.9	(X)	925.2
35793 00	Duplicating Machines: As reported in the census of manufactures <sup>3</sup> ..... As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....	.....	(X) (X)	83.6 82.3	( <sup>10</sup> ) ( <sup>10</sup> )	( <sup>10</sup> ) ( <sup>10</sup> )
35793 11	Duplicating machines: Spirit: Hand.....	1,000 units...	13.0	2.0	20.6	2.5
35793 12	Electric.....	...do.....	42.1	21.2	38.7	37.1
35793 16	Offset.....	...do.....				
35793 13	Stencil: Hand.....	...do.....	38.1	59.1	31.2	6.7
35793 14	Electric.....	...do.....			( <sup>11</sup> )	( <sup>11</sup> )
35793 19	Other, including gelatin and ribbon and ink.....	.....				
35794 00	Dictating, Transcribing, and Recording Machines: As reported in the census of manufactures..... As reported in Current Industrial Reports series MA-35R..... Dictating, transcribing, and recording machines (all media):	1,000 units...	( <sup>12 13</sup> ) ( <sup>12 13</sup> )	( <sup>12 13</sup> ) ( <sup>12 13</sup> )	( <sup>10</sup> ) 193.2	( <sup>10</sup> ) 52.7
35794 21	Systems.....	...do.....				
35794 23	Desk units.....	...do.....				
35794 25	Portable units.....	...do.....	( <sup>13</sup> )	( <sup>13</sup> )	193.2	52.7
35794 28	Transcribing units, excluding systems types.....	...do.....				
35794 29	Other types.....	...do.....				
35795 00	Mailing, Letter Handling, and Addressing Machines: As reported in the census of manufactures <sup>3</sup> ..... As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....	.....	(X) (X)	128.6 117.2	( <sup>10</sup> ) (X)	( <sup>10</sup> ) (NA)
35795 41	Mailing machines, including mail sorting machines, mail tying (bundling) machines, mail cancelling (post office) machinery, postage meters, postal permit mailing machines, stamp affixers.	1,000 units...			570.5	72.1
35795 43	Letter and envelope handling machines, including envelope stuffing and sealing machines, letter opening machines, letter inserting machines, letter folding, stuffing, and sealing machine.....	...do.....	(X)	117.2	(X)	(NA)
35795 45	Collating machines.....	...do.....			(X)	(NA)
35795 47	Addressing machines, including address labeling machines, addressing plates, addressing plate embossers, and addresser-printer machines.....	...do.....			(X)	(NA)
35796 00	All Other Office Machines, N.E.C.: As reported in the census of manufactures <sup>3</sup> ..... As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....	.....	( <sup>12 13</sup> ) ( <sup>12 13</sup> )	<sup>13 14</sup> 254.7 <sup>12 13</sup> 246.3	( <sup>10</sup> ) (X)	<sup>10</sup> 333.1 298.4
35796 31	Check handling machines.....	1,000 units...	178.5	43.8	155.3	25.0
35796 32	Electric stapling machines (office type).....	.....	( <sup>13</sup> )	( <sup>13</sup> )	(X)	(NA)
35796 33	Time recording and time stamp machines.....	1,000 units...	133.5	22.1	102.3	13.4
35796 34	Forms handling equipment, including bursters, decollators, imprinters, autographic registers.....	...do.....	85.8	9.2	(X)	(NA)
35796 98	All other office machines not elsewhere classified, including shorthand writing machines, pencil sharpeners, stapling machines (except electric), papercutters, rebuilt office, computing, and accounting machines not elsewhere classified..	.....	( <sup>13</sup> )	171.2	( <sup>11</sup> )	<sup>11</sup> 88.8
35797 --	Typewriters <sup>14</sup> .....	.....	(X)	(D)	(X)	508.1
35797 20	Typewriters, including coded media, except parts and attachments: As reported in the census of manufactures <sup>3</sup> ..... As reported in Current Industrial Reports series MA-35R and Census Monthly Form M-35C <sup>4</sup> .....	.....	(X) (X)	377.6 380.5	(X) (X)	449.2 436.0
35797 01	Standard (nonportable): Electric.....	Units.....			682.7	200.2
35797 03	Nonelectric.....	...do.....			378.9	55.5
35797 05	Standard portable (including electric).....	...do.....	(D)	380.5	866.7	180.3
35797 12	Specialized typewriters and typewriter principal machines...	...do.....				
35797 40	Parts and attachments for typewriters, sold separately: Produced by complete machine manufacturers: As reported in the census of manufactures <sup>3</sup> ..... As reported in Current Industrial Reports series MA-35R <sup>3</sup> .....	.....	(X) (X) (X)	(D) (D) 13.0	(X) (X) (X)	50.6 50.6 4.8
35797 51	Produced by other than complete machine manufacturers.....	.....				
35797 00	Typewriters, n.s.k.....	.....	(X)	2.7	(X)	3.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3572- --	TYPEWRITERS--Continued					
3579- --	OFFICE MACHINES, N.E.C.--Continued					
35798 --	Parts and Attachments for Addressing, Dictating, Duplicating and Other Office and Store Machines, N.E.C.....		(X)	(D)	(X)	65.8
35798 10	Produced by complete machine manufacturers:					
	As reported in the census of manufactures <sup>3</sup> .....		(X)	77.0	(X)	59.2
	As reported in Current Industrial Reports series MA-35R <sup>4</sup> .....		(X)	83.3	(X)	56.7
35798 20	Parts and attachments for duplicating machines, sold separately.....		(X)	48.0	(X)	15.9
35798 40	Parts for dictating equipment.....		(X)		(X)	40.8
35798 50	Parts and attachments for office machines, n.e.c., except duplicating machines and dictating equipment.....		(X)	35.3	(X)	6.6
35798 41	Produced by other than complete machine manufacturers.....		(X)	(D)	(X)	
35790 00	Office machines, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	11.7	(X)	15.7
35790 02	Office machines, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	6.3	(X)	3.1

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The product class structure of this industry has been significantly changed effective in 1972.

<sup>2</sup>The total value of shipments of electronic computing equipment includes extensive duplication resulting from the use of products of some establishments in the industry as materials by others within the same industry.

<sup>3</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>4</sup>Some equipment in this product class may be leased rather than sold outright. For leased equipment, estimates of the value of products produced were reported. These estimates approximate the value of the products had they been sold outright, and are based on market values of the products, tax or insurance valuations, etc.

<sup>5</sup>The totals shown for product class 35731 for 1972 are not directly comparable to those shown for 1967. For 1972, data are shown for electronic computers in product class 35731 and information for peripheral equipment for electronic computers is shown in product class 35732. Comparable data prior to 1972 are not available.

<sup>6</sup>In 1967, data were not collected separately. These data are included in parts and attachments for electronic computers.

<sup>7</sup>Data for 1972 product code 35741 00, adding and calculating machines, include data for product codes 35743 00, accounting machines and cash registers; and 35745 10, parts and attachments for adding, calculating, and accounting machines, and cash registers produced by complete machine manufacturers.

<sup>8</sup>Data for 1967 for product code 35741 00, adding and calculating machines, include data for product codes 35742 00, electronic calculating machines; and 35743 00, accounting machines and cash registers. These are census of manufactures values.

<sup>9</sup>Data for 1967 for product code 35745 10 include product codes 35742 36-38, 35743 11, 51, 53, 61, and 95. These are values as reported in the Current Industrial Reports series program.

<sup>10</sup>For 1967, data for product codes 35793 00, duplicating machines; 35794 00, dictating, transcribing, and recording machines; and 35795 00, mailing, letter handling, and addressing machines are included in product code 35796 00, all other office machines, n.e.c.

<sup>11</sup>For 1967, data for product code 35793 19, other duplicating machines, including gelatin and ribbon and ink, are included with product code 35796 98, all other office machines, n.e.c., as reported in the annual survey, MA-35R.

<sup>12</sup>For 1972, data for product code 35794 00, dictating, transcribing, and recording machines, are included with product code 35796 00, all other office machines, n.e.c.

<sup>13</sup>For 1972, data for all dictating, transcribing, and recording machines, and for electric stapling machines are included with product code 35796 00, all other office machines, n.e.c., as reported in the annual survey, MA-35R.

<sup>14</sup>These products were previously identified as product class 35720.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
<b>ELECTRONIC COMPUTING EQUIPMENT (EXCLUDING PARTS AND ATTACHMENTS) (35731)<sup>1</sup></b>			<b>PARTS AND ATTACHMENTS FOR ELECTRONIC COMPUTING EQUIPMENT (35733)<sup>1</sup></b>		
United States.....	1,884.3	(NA)	United States.....	1,403.2	(NA)
Northeast Region.....	916.8	(NA)	Northeast Region.....	590.7	(NA)
New England Division.....	GG	(NA)	New England Division.....	165.7	(NA)
Massachusetts.....	GG	(NA)	New Hampshire.....	EE	(NA)
Middle Atlantic Division.....	GG	(NA)	Vermont.....	BB	(NA)
New York.....	GG	(NA)	Massachusetts.....	149.8	(NA)
New Jersey.....	EE	(NA)	Middle Atlantic Division.....	425.0	(NA)
Pennsylvania.....	FF	(NA)	New York.....	352.3	(NA)
			New Jersey.....	63.9	(NA)
North Central Region.....	GG	(NA)	Pennsylvania.....	8.8	(NA)
East North Central Division.....	CC	(NA)			
Michigan.....	4.4	(NA)	North Central Region.....	255.8	(NA)
Wisconsin.....	AA	(NA)	East North Central Division.....	61.7	(NA)
West North Central Division.....	GG	(NA)	Ohio.....	3.2	(NA)
Minnesota.....	GG	(NA)	Illinois.....	21.9	(NA)
Iowa.....	AA	(NA)	Michigan.....	FF	(NA)
Missouri.....	BB	(NA)	Wisconsin.....	EE	(NA)
South Region.....	GG	(NA)	West North Central Division.....	194.1	(NA)
South Atlantic Division.....	110.0	(NA)	Minnesota.....	GG	(NA)
Georgia.....	AA	(NA)	Missouri.....	3.4	(NA)
Florida.....	GG	(NA)	South Dakota.....	FF	(NA)
East South Central Division.....	GG	(NA)	Nebraska.....	EE	(NA)
Kentucky.....	BB	(NA)			
Tennessee.....	AA	(NA)	South Region.....	176.4	(NA)
West South Central Division.....	FF	(NA)	South Atlantic Division.....	GG	(NA)
Texas.....	FF	(NA)	Virginia.....	BB	(NA)
			North Carolina.....	GG	(NA)
West Region.....	459.2	(NA)	Florida.....	GG	(NA)
Mountain Division.....	GG	(NA)	East South Central Division.....	FF	(NA)
Arizona.....	GG	(NA)	Tennessee.....	FF	(NA)
Pacific Division.....	GG	(NA)	West South Central Division.....	GG	(NA)
California.....	GG	(NA)	Oklahoma.....	GG	(NA)
			Texas.....	4.6	(NA)
<b>PERIPHERAL EQUIPMENT FOR ELECTRONIC COMPUTERS (35732)<sup>1</sup></b>			West Region.....	382.2	(NA)
United States.....	2,745.3	(NA)	Mountain Division.....	GG	(NA)
Northeast Region.....	776.3	(NA)	Wyoming.....	CC	(NA)
New England Division.....	291.1	(NA)	Colorado.....	GG	(NA)
New Hampshire.....	EE	(NA)	Arizona.....	FF	(NA)
Massachusetts.....	227.8	(NA)	Utah.....	BB	(NA)
Connecticut.....	FF	(NA)	Pacific Division.....	GG	(NA)
Middle Atlantic Division.....	485.2	(NA)	Washington.....	BB	(NA)
New York.....	411.9	(NA)	California.....	GG	(NA)
New Jersey.....	FF	(NA)			
Pennsylvania.....	FF	(NA)	ADDING AND CALCULATING MACHINES, EXCEPT ELECTRONIC; ACCOUNTING MACHINES AND CASH REGISTERS; AND PARTS AND ATTACHMENTS FOR ADDING AND CALCULATING MACHINES (35141, 35143, AND 35145)		
North Central Region.....	413.2	(NA)	United States.....	457.4	(NA)
East North Central Division.....	110.4	(NA)	Northeast Region.....	36.3	(NA)
Ohio.....	24.8	(NA)	New England Division.....	EE	(NA)
Michigan.....	82.8	(NA)	Massachusetts.....	CC	(NA)
Wisconsin.....	BB	(NA)	Connecticut.....	EE	(NA)
West North Central Division.....	302.8	(NA)	Middle Atlantic Division.....	EE	(NA)
Minnesota.....	GG	(NA)	New York.....	15.8	(NA)
South Region.....	487.8	(NA)	New Jersey.....	AA	(NA)
South Atlantic Division.....	GG	(NA)	Pennsylvania.....	AA	(NA)
Maryland.....	CC	(NA)			
District of Columbia.....	AA	(NA)	North Central Region.....	303.8	(NA)
North Carolina.....	CC	(NA)	East North Central Division.....	GG	(NA)
Florida.....	FF	(NA)	Ohio.....	GG	(NA)
East South Central Division.....	EE	(NA)	Indiana.....	AA	(NA)
Tennessee.....	CC	(NA)	Illinois.....	FF	(NA)
Alabama.....	BB	(NA)	Michigan.....	24.7	(NA)
West South Central Division.....	235.4	(NA)	Wisconsin.....	CC	(NA)
Oklahoma.....	GG	(NA)	West North Central Division.....	CC	(NA)
Texas.....	FF	(NA)	Minnesota.....	AA	(NA)
			Kansas.....	CC	(NA)
West Region.....	1,068.0	(NA)			
Mountain Division.....	329.0	(NA)	South Region.....	81.5	(NA)
Wyoming.....	BB	(NA)	South Atlantic Division.....	43.7	(NA)
Colorado.....	GG	(NA)	Delaware.....	FF	(NA)
New Mexico.....	AA	(NA)	Maryland.....	BB	(NA)
Arizona.....	FF	(NA)	Florida.....	CC	(NA)
Utah.....	FF	(NA)	East South Central Division.....	AA	(NA)
Pacific Division.....	739.0	(NA)	Kentucky.....	AA	(NA)
Washington.....	EE	(NA)	West South Central Division.....	FF	(NA)
Oregon.....	BB	(NA)	Arkansas.....	CC	(NA)
California.....	722.1	(NA)	Texas.....	AA	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ADDING AND CALCULATING MACHINES, EXCEPT ELECTRONIC; ACCOUNTING MACHINES AND CASH REGISTERS; AND PARTS AND ATTACHMENTS FOR ADDING AND CALCULATING MACHINES (35141, 35143, AND 35145)--Continued			DICTATING, TRANSCRIBING, AND RECORDING MACHINES; AND ALL OTHER OFFICE MACHINES, N.E.C. (35794 AND 35796)		
United States.....			United States.....	254.7	(NA)
West Region.....	35.0	(NA)	Northeast Region.....	134.7	(NA)
Mountain Division.....	FF	(NA)	New England Division.....	75.7	(NA)
Colorado.....	AA	(NA)	New Hampshire.....	CC	(NA)
New Mexico.....	EE	(NA)	Massachusetts.....	36.6	(NA)
Pacific Division.....	EE	(NA)	Rhode Island.....	CC	(NA)
California.....	EE	(NA)	Connecticut.....	FF	(NA)
			Middle Atlantic Division.....	59.0	(NA)
ELECTRONIC CALCULATING MACHINES (35742) <sup>1</sup>			New York.....	42.1	(NA)
United States.....	225.8	(NA)	New Jersey.....	EE	(NA)
Northeast Region.....	73.1	(NA)	Pennsylvania.....	BB	(NA)
New England Division.....	GG	(NA)	North Central Region.....	68.4	(NA)
Massachusetts.....	GG	(NA)	East North Central Division.....	GG	(NA)
Middle Atlantic Division.....	EE	(NA)	Ohio.....	EE	(NA)
New Jersey.....	BB	(NA)	Indiana.....	-	(NA)
Pennsylvania.....	EE	(NA)	Illinois.....	35.1	(NA)
			Michigan.....	EE	(NA)
North Central Region.....	GG	(NA)	Wisconsin.....	-	(NA)
East North Central Division.....	GG	(NA)	West North Central Division.....	BB	(NA)
Illinois.....	GG	(NA)	Minnesota.....	BB	(NA)
South Region.....	FF	(NA)	Missouri.....	AA	(NA)
South Atlantic Division.....	FF	(NA)	Nebraska.....	AA	(NA)
South Carolina.....	FF	(NA)	South Region.....	42.0	(NA)
West Region.....	GG	(NA)	South Atlantic Division.....	FF	(NA)
Mountain Division.....	FF	(NA)	Maryland.....	AA	(NA)
Colorado.....	EE	(NA)	District of Columbia.....	AA	(NA)
New Mexico.....	CC	(NA)	North Carolina.....	AA	(NA)
Pacific Division.....	FF	(NA)	South Carolina.....	EE	(NA)
California.....	FF	(NA)	Georgia.....	BB	(NA)
			Florida.....	AA	(NA)
DUPLICATING MACHINES (35793)			West South Central Division.....	FF	(NA)
United States.....	83.6	(NA)	Texas.....	FF	(NA)
Northeast Region.....	18.8	(NA)	West Region.....	9.5	(NA)
New England Division.....	EE	(NA)	Pacific Division.....	9.5	(NA)
Massachusetts.....	BB	(NA)	Washington.....	-	(NA)
Connecticut.....	EE	(NA)	California.....	9.5	(NA)
Middle Atlantic Division.....	BB	(NA)			
New York.....	AA	(NA)	MAILING, LETTER HANDLING, AND ADDRESSING MACHINES (35795)		
			United States.....	128.6	(NA)
North Central Region.....	64.2	(NA)	Northeast Region.....	80.7	(NA)
East North Central Division.....	64.2	(NA)	New England Division.....	GG	(NA)
Ohio.....	FF	(NA)	Massachusetts.....	BB	(NA)
Illinois.....	FF	(NA)	Connecticut.....	GG	(NA)
South Region.....	AA	(NA)	Middle Atlantic Division.....	EE	(NA)
South Atlantic Division.....	AA	(NA)	New Jersey.....	EE	(NA)
Maryland.....	AA	(NA)	Pennsylvania.....	BB	(NA)
West Region.....	AA	(NA)	North Central Region.....	FF	(NA)
Pacific Division.....	AA	(NA)	East North Central Division.....	FF	(NA)
California.....	AA	(NA)	Ohio.....	FF	(NA)
			Illinois.....	CC	(NA)
			West North Central Division.....	AA	(NA)
			South Region.....	BB	(NA)
			South Atlantic Division.....	4.3	(NA)
			Virginia.....	BB	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

- Represents zero. (NA) Not available.

<sup>1</sup>The 1967 product class data are not comparable. Products shifting into or out of this class of product account for more than 15 percent of shipments at the U.S. level.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3573	Electronic computing equipment.....	6,108.0	5,168.7	5,640.8	5,212.7	4,329.3	4,048.8	(NA)	(NA)
35731	Electronic computing equipment (except parts and attachments).....	1,884.3	3,898.2	3,955.2	3,951.1	3,429.1	3,123.9		
35732	Peripheral equipment for electronic computers.....	2,745.3							
35733	Parts and attachments for electronic computing equipment...	1,403.2							
35730	Electronic computing equipment, n.s.k.....	75.2	13.1	(15.8)	18.9	14.4	18.5		
3574	Calculating and accounting machines <sup>2</sup> .....	694.2	446.9	524.8	577.4	608.7	630.8	2,468.4	(NA)
35741	Adding and calculating machines, except electronic.....	<sup>3</sup> 457.4	351.1	417.8	467.8	425.7	464.3		
35742	Electronic calculating machines.....	225.8							
35743	Accounting machines and cash registers.....	( <sup>3</sup> )							
35745	Parts and attachments for adding, calculating, and accounting machines.....	( <sup>3</sup> )	91.1	96.1	107.9	174.0	131.7		
35740	Calculating and accounting machines, n.s.k.....	11.0	(4.7)	(10.9)	1.7	(9.0)	34.8		
35760	Scales and balances, except laboratory.....	182.1	138.3	152.7	169.4	131.6	131.4	90.0	71.0
3572	Typewriters.....	1,046.9	933.4	978.0	1,016.0	932.5	925.8	541.3	399.8
3579	Office machines, n.e.c.....								
3579	Office machines, n.e.c.....	(D)	521.2	513.3	554.8	451.0	417.7	275.8	211.2
35797	Typewriters, including coded media, parts, and attachments <sup>4</sup> ..	(D)	412.2	464.7	461.2	481.5	508.1	265.5	188.6
35793	Duplicating machines.....	83.6	426.3	401.7	442.8	358.5	333.1	275.8	211.2
35794	Dictating, transcribing, and recording machines.....	<sup>5</sup> 254.7							
35795	Mailing, letter handling, and addressing machines.....	128.6							
35796	All other office machines, n.e.c.....	( <sup>5</sup> )	(D)	85.9	103.3	100.5	82.1	65.8	
35798	Parts and attachments for dictating, duplicating, and other office machines.....	(D)							
35790	Office machines, n.e.c., n.s.k.....	18.0							

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The product class structure for this industry has been significantly changed effective in 1972.

<sup>3</sup>Data for 1972 product code 35741 00, adding and calculating machines, include data for product codes 35743 00, accounting machines and cash registers; and 35745 00, parts and attachments for adding, calculating, and accounting machines, and cash registers.

<sup>4</sup>These products were previously identified as product class 35720.

<sup>5</sup>For 1972, data for product code 35794 00, dictating, transcribing, and recording machines, are included with product code 35796 00, all other office machines, n.e.c., to avoid disclosing data for individual companies.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3573.--ELECTRONIC COMPUTING EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 2,797.3	(X)	<sup>1</sup> 1,768.1
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	2.9	2.2	1.8	.8
331012	Sheet and strip.....	..do.....	(NA)	5.6	(NA)	5.8
331015	Structural shapes.....	..do.....	(NA)	3.2	( <sup>2</sup> )	( <sup>2</sup> )
331017	Wire and wire products.....	..do.....	(NA)	.8	2.9	3.6
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	1.8	<sup>2</sup> 6.7	<sup>2</sup> 2.1
331020	Alloy steel (except stainless).....	..do.....	1.3	2.4	2.1	3.1
	Stainless steel:					
331033	Sheet and strip.....	..do.....	9.7	9.4		
331050	All other stainless steel mill shapes and forms.....	..do.....	.6	2.0		
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction.....	Million lb....	(NA)	4.4	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	<sup>2</sup> 4.2	24.9	(NA)	39.0
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	..do.....	6.1	3.9	8.9	8.4
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....	..do.....	(NA)	3.9		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	2.5	3.5		

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3573.--ELECTRONIC COMPUTING EQUIPMENT--Continued					
	Materials, parts, containers, and supplies--Continued					
	Castings (rough and semifinished): <sup>3</sup>					
332045	Steel.....	1,000 s. tons.	3.7	3.5	(NA)	2.8 <sup>9</sup>
336100	Aluminum and aluminum-base alloy.....	Million lb....	11.0	15.4	3.2	4.1
	Electric motors and generators: <sup>3</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	181.9	9.3	(NA)	4.7
362115	Other fractional horsepower electric motors.....	...do.....	(NA)	19.0	(D)	(D)
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	36.4	5.6	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(X)	3.7	}	4.1
356201	Roller.....	.....	(X)	1.5		
364301	Appliance outlets, switches, lampholders, and other current-carrying wiring devices.....	.....	(X)	28.1	(NA)	(NA)
367408	Solid state semiconductors <sup>3</sup> .....	Million units.	455.1	277.9	348.4	141.4
367001	Resistors, capacitors, transformers, sockets, and other electronic components and accessories, except solid state semiconductors.....	.....	(X)	335.8	(X)	205.7
357330	Parts and attachments specially designed for electronic computing equipment.....	.....	(X)	1,228.1	(X)	688.7
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	674.4	(X)	<sup>5</sup> 624.3
976000	Materials and components, n.s.k. <sup>4</sup> .....	.....	(X)	127.0	(X)	29.5
	INDUSTRY 3574.--CALCULATING AND ACCOUNTING MACHINES					
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>5</sup> 235.8	(X)	141.3
	Mill shapes and forms except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	6.1	1.9	( <sup>6</sup> )	( <sup>6</sup> )
331012	Sheet and strip.....	...do.....	18.3	5.3	30.1	7.6
331015	Structural shapes.....	...do.....	}	.3	}	<sup>6</sup> 13.6
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
331020	Alloy steel (except stainless).....	...do.....	}	.5	}	<sup>6</sup> 4.4
331033	Stainless steel:	.....				
331050	Sheet and strip.....	...do.....				
331050	All other stainless steel mill shapes and forms.....	...do.....				
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction.....	Million lb....	(D)	(D)	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (copper content).	(D)	(D)	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	}	(NA)	3.6	2.0
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....				
	Castings (rough and semifinished): <sup>3</sup>					
332045	Steel.....	1,000 s. tons.	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	1.2	(D)	(D)
	Electric motors and generators: <sup>3</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	214.3	.5
362115	Other fractional horsepower electric motors.....	...do.....	(NA)	3.3	(D)	(D)
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	-	-	(D)	(D)
	Bearings:					
356218	Ball.....	.....	}	(X)	.9	{
356201	Roller.....	.....				
364301	Appliance outlets, switches, lampholders, and other current-carrying wiring devices.....	.....	(X)	3.5	(X)	(NA)
367408	Solid state semiconductors <sup>3</sup> .....	Million units.	261.3	56.7	92.2	13.4
367001	Resistors, capacitors, transformers, sockets, and other electronic components and accessories, except solid state semiconductors....	.....	(X)	34.7	(X)	12.2
357330	Parts and attachments specially designed for electronic computing equipment.....	.....	(X)	29.4	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	73.7	(X)	<sup>5</sup> 89.4
976000	Materials and components, n.s.k. <sup>4</sup> .....	.....	(X)	21.1	(X)	11.8

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3576.--SCALES AND BALANCES, EXCEPT LABORATORY					
	Materials, parts, containers, and supplies, total.....		(X)	\$66.9	(X)	46.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	2.8	.8	2.0	.5
331012	Sheet and strip.....	..do.....	23.9	4.9	17.5	3.1
331015	Structural shapes.....	..do.....	9.4	1.9	5.8	1.0
331017	Wire and wire products.....	..do.....	.2	.1	1.7	.4
331019	All other carbon steel mill shapes and forms.....	..do.....	2.1	.8		
331020	Alloy steel (except stainless).....	..do.....	.6	.8	.6	.9
331033	Stainless steel:	..do.....				
331050	Sheet and strip.....	..do.....				
	All other stainless steel mill shapes and forms.....	..do.....				
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	(Z)	(Z)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	.5	.4	(D)	(D)
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)..	..do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....				
	Castings (rough and semifinished): <sup>3</sup>					
332045	Steel.....	Short tons....	.4	.5	.3	.2
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.5	1.4	(NA)	1.8
	Electric motors and generators: <sup>3</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	4.1	.4
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	(D)	(D)	11.3	.5
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	4.2	.3	(NA)	.3
	Bearings:					
356218	Ball.....	..do.....	(X)	.2	(X)	.2
356201	Roller.....	..do.....				
364301	Appliance outlets, switches, lampholders, and other current- carrying wiring devices.....	..do.....	(D)	(D)	(NA)	(NA)
367408	Solid state semiconductors <sup>3</sup> .....	Million units.	(D)	(D)	(D)	(D)
367001	Resistors, capacitors, transformers, sockets, and other electronic components and accessories, except state semiconductors.....	..do.....	(D)	(D)	(X)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	40.9	(X)	\$19.6
976000	Materials and components, n.s.k. <sup>4</sup> .....	..do.....	(X)	7.6	(X)	18.0
	INDUSTRY 3572.--TYPEWRITERS and INDUSTRY 3579.--OFFICE MACHINES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	\$326.1	(X)	283.8
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	15.1	6.8	59.0	19.3
331012	Sheet and strip.....	..do.....	57.1	20.8		
331017	Wire and wire products.....	..do.....	15.8	7.0		
331015	Structural shapes.....	..do.....	(NA)	1.6		
331019	All other carbon steel mill shapes and forms.....	..do.....	1.8	1.0		
331020	Alloy steel (except stainless).....	..do.....	1.2	.8	.3	
331033	Stainless steel:	..do.....	1.0	1.0		
331050	Sheet and strip.....	..do.....	.1	.3		
	All other stainless steel mill shapes and forms.....	..do.....				
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	(D)	(D)	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.7	1.1	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	1.4	.7	3.4	3.7
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)..	..do.....	2.9	2.1		
335008	All other aluminum mill shapes and forms.....	..do.....	(NA)	.4		
	Castings (rough and semifinished): <sup>3</sup>					
332045	Steel.....	1,000 s. tons.	(D)	(D)	2.9	1.5
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	8.3	(D)	(D)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3572.--TYPEWRITERS and INDUSTRY 3579.--OFFICE MACHINES, N.E.C.--Continued					
	Materials, parts, containers, and supplies--Continued					
	Electric motors and generators: <sup>3</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	1,881.8	10.5
362115	Fractional horsepower electric motors.....	...do.....	(NA)	6.0		
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	(D)	(D)		
	Bearings:					
356218	Ball.....	.....	(X)	1.6	(D)	(D)
356201	Roller.....	.....	(X)	.5		
364301	Appliance outlets, switches, lampholders, and other current- carrying wiring devices.....	.....	(X)	4.4	(NA)	(NA)
367408	Solid state semiconductors <sup>3</sup> .....	Million units.	(NA)	3.2	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	229.3	(X)	<sup>5</sup> 200.6
976000	Materials and components, n.s.k. <sup>4</sup> .....	.....	(X)	23.4	(X)	48.2

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Includes extensive duplication because the products of some establishments are consumed as materials by other establishments in the same industry.

<sup>2</sup>1967 data for material code 331015, Carbon steel structural shapes, have been included with material code 331019, All other carbon steel mill shapes and forms.

<sup>3</sup>Excludes quantities produced and consumed in the same establishment.

<sup>4</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.

<sup>5</sup>Includes cost of materials indicated by the symbol (D).

<sup>6</sup>Material code 331011, Carbon steel bars and bar shapes, is included with material codes 331015 through 331050.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3572.--TYPEWRITERS					
	Purchased fuels and electric energy.....	.....	(X)	3.4	(X)	(NA)
	Purchased fuels, total.....	.....	(X)	1.3	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	15.8	.1	(NA)	(NA)
291141	Distillate.....	...do.....	2.8	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	13.0	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.9	1.2	(NA)	(NA)
960011	Other fuels.....	.....	(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....	.....	(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	188.9	2.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.8	-	(NA)	(NA)

See footnotes at end of table.



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3573.--ELECTRONIC COMPUTING EQUIPMENT					
	Purchased fuels and electric energy.....		(X)	26.4	(X)	11.8
	Purchased fuels, total.....		(X)	4.5	(X)	2.2
121005	Coal.....	1,000 s. tons.....	3.5	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	273.1	1.3	(NA)	(NA)
291141	Distillate.....	...do.....	72.0	.4	(NA)	(NA)
291151	Residual.....	...do.....	201.1	.9	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	4.6	2.6	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	1,881.4	21.9	898.3	9.6
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.1	-	2.1	-
	INDUSTRY 3574.--CALCULATING AND ACCOUNTING MACHINES					
	Purchased fuels and electric energy.....		(X)	3.4	(X)	(NA)
	Purchased fuels, total.....		(X)	1.2	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	69.3	.6	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	26.4	.1	(NA)	(NA)
291141	Distillate.....	...do.....	25.2	.1	(NA)	(NA)
291151	Residual.....	...do.....	1.1	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.8	.4	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	170.3	2.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.1	-	(NA)	(NA)
	INDUSTRY 3576.--SCALES AND BALANCES, EXCEPT LABORATORY					
	Purchased fuels and electric energy.....		(X)	1.1	(X)	(NA)
	Purchased fuels, total.....		(X)	.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	10.7	.1	(NA)	(NA)
291141	Distillate.....	...do.....	.4	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	10.3	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.4	.2	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	36.0	.6	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.2	-	(NA)	(NA)
	INDUSTRY 3579.--OFFICE MACHINES, N.E.C.					
	Purchased fuels and electric energy.....		(X)	3.8	(X)	(NA)
	Purchased fuels, total.....		(X)	1.3	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	18.0	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	65.8	.3	(NA)	(NA)
291141	Distillate.....	...do.....	23.5	.1	(NA)	(NA)
291151	Residual.....	...do.....	42.3	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.0	.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	153.3	2.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.8	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.



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# Service Industry Machines and Machine Shops

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# EXPLANATORY TEXT

## SERVICE INDUSTRY MACHINES AND MACHINE SHOPS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3581—Automatic Merchandising Machines
- 3582—Commercial Laundry, Dry Cleaning, and Pressing Machines\*
- 3585—Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment\*
- 3586—Measuring and Dispensing Pumps
- 3589—Service Industry Machinery, N.E.C.
- 3592—Carburetors, Pistons, Piston Rings, and Valves\*
- 3599—Machinery, Except Electrical, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3581.—AUTOMATIC MERCHANDISING MACHINES

This industry comprises establishments primarily engaged in manufacturing automatic merchandising units, also referred to as vending machines (excluding music, amusement, or gaming machines), and coin-operated mechanisms for such machines.

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\*Note that the "short title" for this industry is used throughout the report.

For a detailed list of products of industry 3581, refer to table 6A, product codes 35811 00 to 35812 69.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Automatic Merchandising Machines Industry in 1972 totaled \$324 million. This included shipments of automatic merchandising machines (primary products) valued at \$293 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of automatic merchandising machines (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent.

Shipments of automatic merchandising machines (primary products) from establishments classified in industry 3581 in 1972 represented 96 percent (coverage ratio) of these products valued at \$306 million shipped by all industries. In 1967, the coverage ratio was 88 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3581, these establishments accounted for 6 percent of value of shipments.

## INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT (Short Title)

This industry comprises establishments primarily engaged in manufacturing laundry and dry cleaning equipment and pressing machines for commercial and industrial use.

Establishments primarily engaged in manufacturing household laundry equipment, including coin-operated washers and dryers, are classified in industry 3633 (Household Laundry Equipment). For a detailed list of products of industry 3582, refer to table 6A, product codes 35820 13 to 35820 91.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been changed from the previous classification system. Data for coin-operated washers and dryers, under 10-lb load, and parts and attachments for these products have been moved to industry 3633, Household Laundry Equipment.

Value of shipments and other receipts of the Commercial Laundry Equipment Industry in 1972 totaled \$157 million. This included shipments of commercial laundry equipment (primary products) valued at \$131 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of commercial laundry equipment (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent. Secondary products shipped by this industry in 1972 consisted mainly of household laundry equipment (\$4 million).

Shipments of commercial laundry equipment (primary products) from establishments classified in industry 3582 in 1972 represented 70 percent (coverage ratio) of these products valued at \$185 million shipped by all industries. In 1967, the coverage ratio was 79 percent. Other industries shipping commercial laundry equipment consisted mainly of industry 3633, Household Laundry Equipment (\$38 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3582, these establishments accounted for 4 percent of value of shipments.

#### **INDUSTRY 3585.—REFRIGERATION AND HEATING EQUIPMENT (Short Title)**

This industry comprises establishments primarily engaged in manufacturing refrigeration equipment and systems and similar equipment for commercial and industrial use; complete air-conditioning units for domestic, commercial, and industry use; and warm air furnaces, except electric. This industry also includes establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment. Humidifiers and dehumidifiers, except for rooms, are also classified in this industry.

Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers are classified in industry 3632 (Household Refrigerators and Freezers); electric air space heaters in industry 3634 (Electric Housewares and Fans); and electric warm air furnaces and other electric comfort heating equipment in industry 3699 (Electrical Equipment and Supplies, N.E.C.). For a detailed list of products of industry 3585, refer to table 6A, product codes 35851 00 to 35858 73.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number

from the previous classification, but were significantly changed in comparison with data classified by the previous system. Warm air furnaces, formerly included in industry 3433, Heating Equipment, Except Electric, are now included in this industry.

Value of shipments and other receipts of the Refrigeration and Heating Equipment Industry in 1972 totaled \$7,084 million. This included shipments of refrigeration and heating equipment (primary products) valued at \$5,635 million, shipments of other products (secondary products) valued at \$1,053 million, and miscellaneous receipts (mainly resales) of \$395 million.

The total cost of materials and total value of shipments of the Refrigeration and Heating Equipment Industry include extensive duplication resulting from the intraindustry shipments of certain products by some establishments for use as materials by others. For this reason, the "primary product specialization ratio," a measure of the extent to which plants classified in an industry "specialize" in making the products regarded as primary to the industry, has not been computed precisely. The ratio, however, is between 80 and 100 percent. Since this duplication is also included in the value of shipments, the coverage ratio for this industry has not been computed.

Industry 3585 contains two major establishment types. One group of establishments specializes primarily in the manufacture of compressors, condensers, and other components for air-conditioning and commercial refrigeration. Many of these establishments also produce complete air-conditioning equipment as well as subassemblies for air-conditioning and commercial refrigeration equipment. These establishments also rely on other establishments for their motors and other electrical equipment.

The other major segment of industry 3585 covers the production of commercial refrigeration equipment such as walk-in and reach-in refrigerators, display cases for meat, dairy, and other food products, low-temperature freezing and dispensing equipment, florist cabinets, etc. Although significant amounts of metal are consumed in the manufacture of these products, many of these items contain substantial amounts of wood, glass, and other nonmetallic materials. Some types of commercial refrigeration equipment are shipped from the factory without compressors, condensing units, or refrigeration equipment. These "remote-type units" are then installed at the site with the suitable refrigeration components.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 5A. Approximately 24 percent of the total industry shipments are represented by plants specializing in product class 35852, unitary air-conditioners; 27 percent in 35851, heat-transfer equipment, except room and unitary air-



conditioners and dehumidifiers; and 5 percent in 35856, room air-conditioners and dehumidifiers.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3585, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS**

This industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns.

Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use are classified in industry 3561 (Pumps and Pumping Equipment). For a detailed list of products of industry 3586, refer to table 6A, product codes 35860 11 to 35860 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Measuring and Dispensing Pumps Industry in 1972 totaled \$232 million. This included shipments of measuring and dispensing pumps (primary products) valued at \$152 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts (mainly resales) of \$18 million.

Shipments of measuring and dispensing pumps (primary products) in 1972 represented 71 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 71 percent.

Shipments of measuring and dispensing pumps (primary products) from establishments classified in industry 3586 in 1972 represented 83 percent (coverage ratio) of these products valued at \$183 million shipped by all industries. In 1967, the coverage ratio was 80 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3586, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3589.—SERVICE INDUSTRY MACHINERY, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor-sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines.

Establishments primarily engaged in manufacturing household electrical appliances are classified in SIC group 363. For a detailed list of products of industry 3589, refer to table 6A, product codes 35891 11 to 35893 98.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Service Industry Machinery, N.E.C., Industry in 1972 totaled \$901 million. This included shipments of service industry machinery, n.e.c., (primary products) valued at \$748 million, shipments of other products (secondary products) valued at \$86 million, and miscellaneous receipts (mainly resales) of \$66 million.

Shipments of service industry machinery, n.e.c., (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

Shipments of service industry machinery, n.e.c., (primary products) from establishments classified in industry 3589 in 1972 represented 87 percent (coverage ratio) of these products valued at \$864 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping service industry machinery, n.e.c., consisted mainly of industry 3569, General Industrial Machinery, N.E.C., (\$26 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3589, these establishments accounted for 8 percent of value of shipments.

#### **INDUSTRY 3592.—CARBURETORS, PISTONS, RINGS, VALVES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing carburetors, pistons, piston rings, and valves. Establishments primarily engaged in manufacturing metallic packing are classified in industry 3293 (Gaskets, Packing and Sealing Devices); and those primarily engaged in manufacturing machinery repair and equipment parts (except electric) on a



job or order basis for others are classified in industry 3599. For a detailed list of products of industry 3592, refer to table 6A, product codes 35921 11 to 35923 63.

The statistics for this industry, as classified under the 1972 edition of the SIC manual constitute a new industry. Carburetors, pistons, piston rings, and valves were formerly included in industry 3599, Machinery, Except Electrical, N.E.C.

Value of shipments and other receipts of the Carburetors, Pistons, Rings, Valves Industry in 1972 totaled \$744 million. This included shipments of carburetors, pistons, rings, and valves (primary products) valued at \$589 million, shipments of other products (secondary products) valued at \$142 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of carburetors, pistons, rings, and valves (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of motor vehicle parts and accessories (\$91 million) and aluminum foundries (\$9 million).

Shipments of carburetors, pistons, rings, and valves (primary products) from establishments classified in industry 3592 in 1972 represented 74 percent (coverage ratio) of these products valued at \$792 million shipped by all industries. Other industries shipping carburetors, pistons, rings, and valves consisted mainly of industry 3714, Motor Vehicle Parts and Accessories (\$8 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3592, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3599.—MACHINERY, EXCEPT ELECTRICAL, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing machinery and parts except electrical, not else-

where classified, such as amusement park equipment, pneumatic and hydraulic cylinders, and flexible metal hose and tubing. This industry also includes establishments primarily engaged in producing or repairing machine and equipment parts, not elsewhere classified, on a job or order basis for others.

Establishments primarily engaged in manufacturing metallic packing, formerly classified in this industry, are classified in industry 3293 (Gaskets, Packing and Sealing Devices). For a detailed list of products of industry 3599, refer to table 6A, product codes 35992 42 to 35995 11.

The code number for this industry in the 1972 edition of the SIC is unchanged, but the content of this industry has been changed. Data for carburetors, pistons, piston rings, and valves have been moved to create new industry 3592.

Value of shipments and other receipts of the Machinery, Except Electrical, N.E.C., Industry in 1972 totaled \$3,660 million. This included shipments of machinery, except electrical, n.e.c., (primary products) valued at \$3,154 million, shipments of other products (secondary products) valued at \$239 million, and miscellaneous receipts (mainly contract work) of \$266 million.

Shipments of machinery, except electrical, n.e.c. (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 93 percent.

Shipments of machinery, except electrical, n.e.c., (primary products) from establishments classified in industry 3599 in 1972 represented 94 percent (coverage ratio) of these products valued at \$3,363 million shipped by all industries. In 1967, the coverage ratio was also 94 percent. Other industries shipping machinery, except electrical, n.e.c., consisted mainly of industry 3561, Pumps and Pumping Equipment, \$23 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3599, these establishments accounted for 29 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3581.--AUTOMATIC MERCHANDISING MACHINES															
1972 Census.....	125	48	10.5	83.6	7.3	13.9	52.1	183.4	152.3	324.4	5.6	(NA)	89.0	94	92
1971 ASM.....	(NA)	(NA)	10.5	81.8	7.6	13.8	50.2	165.2	142.9	300.7	3.5	77.3	83.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.0	61.7	6.3	11.4	38.2	129.4	117.0	247.3	3.5	70.4	61.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	11.1	71.5	8.4	15.8	47.6	150.2	133.4	285.1	3.3	72.3	68.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.4	62.4	8.1	15.9	42.1	125.0	131.1	271.3	4.3	65.9	63.0	(NA)	(NA)
1967 Census.....	150	56	10.0	59.2	7.8	14.8	39.6	140.6	122.5	248.0	5.5	63.0	77.8	97	88
1966 ASM.....	(NA)	(NA)	11.9	73.6	8.7	17.7	45.1	150.1	134.9	279.5	4.8	(NA)	65.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	11.6	67.1	8.5	16.7	42.7	136.5	122.3	252.1	3.7	(NA)	61.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.7	66.4	8.7	17.0	42.3	136.2	123.0	256.2	3.1	74.7	56.7	(NA)	(NA)
1963 Census.....	158	68	11.7	64.8	8.4	16.8	40.4	121.4	116.9	238.0	3.5	71.3	54.0	81	90
1962 ASM.....	(NA)	(NA)	13.4	71.5	9.5	18.3	42.4	130.8	121.4	247.5	6.4	71.0	51.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.1	57.9	7.7	15.3	34.0	96.5	94.3	201.3	2.7	(NA)	38.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.0	56.8	8.1	16.4	37.0	123.6	101.8	213.6	3.5	(NA)	48.4	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	8.6	42.1	6.3	12.7	26.3	83.5	83.4	165.2	2.5	(NA)	34.4	(NA)	(NA)
1958 Census.....	121	53	7.9	37.0	5.6	10.8	21.9	64.7	76.6	141.6	2.8	(NA)	29.8	92	92
INDUSTRY 3582.--COMMERCIAL LAUNDRY EQUIPMENT															
1972 Census.....	107	47	4.8	42.2	3.4	6.7	25.4	88.2	68.9	157.0	1.2	(NA)	36.6	91	70
1971 ASM.....	(NA)	(NA)	5.0	41.7	3.5	7.0	24.8	80.1	69.8	148.3	1.1	49.0	35.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	5.8	44.7	4.0	7.9	26.6	92.0	76.2	170.8	1.6	52.8	42.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	6.8	51.2	4.7	9.3	32.5	94.5	83.1	176.4	2.6	39.6	44.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.8	50.3	4.7	10.0	32.0	100.8	83.4	185.0	1.6	37.7	40.4	(NA)	(NA)
1967 Census.....	117	54	7.5	50.9	5.4	11.2	32.5	96.4	85.9	183.1	4.9	38.1	41.6	92	279
1966 ASM.....	(NA)	(NA)	7.8	51.9	5.7	12.3	32.1	102.7	90.9	190.5	4.6	(NA)	44.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	7.6	47.1	5.4	11.3	28.4	94.0	81.2	172.3	2.4	(NA)	40.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	6.8	39.9	4.9	10.3	25.3	78.6	69.2	147.1	1.8	46.2	33.7	(NA)	(NA)
1963 Census.....	115	58	6.5	37.9	4.7	9.6	23.5	70.8	64.9	136.8	2.5	44.5	32.7	91	89
1962 ASM.....	(NA)	(NA)	6.3	36.1	4.3	9.2	21.6	64.6	64.2	124.7	1.3	40.6	30.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.9	32.6	4.1	8.4	20.4	61.5	55.9	119.9	2.7	(NA)	26.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.9	36.9	4.7	9.3	22.1	74.7	63.3	137.3	1.3	(NA)	30.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	6.8	36.4	4.8	9.7	22.2	71.0	66.4	138.0	1.5	(NA)	32.4	(NA)	(NA)
1958 Census.....	119	47	6.6	33.0	4.5	9.2	20.2	65.6	54.1	119.5	2.0	(NA)	30.5	94	95
INDUSTRY 3585.--REFRIGERATION AND HEATING EQUIPMENT															
1972 Census, New SIC..	774	443	150.8	1,442.1	112.6	223.5	978.6	3,517.4	<sup>3</sup> 3,714.9	<sup>3</sup> 7,083.5	201.2	(NA)	1,330.6	( <sup>3</sup> )	( <sup>3</sup> )
1972 Census, Old SIC..	737	419	141.8	1,361.3	105.7	210.0	923.8	3,333.2	<sup>3</sup> 3,466.1	<sup>3</sup> 6,656.5	190.2	(NA)	1,254.1	( <sup>3</sup> )	( <sup>3</sup> )
1967 Census <sup>4</sup> .....	717	(NA)	104.0	699.5	76.3	154.5	460.8	1,612.2	<sup>3</sup> 1,858.0	<sup>3</sup> 3,408.1	124.4	(NA)	(NA)	( <sup>3</sup> )	( <sup>3</sup> )
1963 Census <sup>4</sup> .....	752	(NA)	80.9	481.7	56.6	112.7	300.5	986.3	<sup>3</sup> 1,202.6	<sup>3</sup> 2,167.6	36.2	(NA)	(NA)	( <sup>3</sup> )	( <sup>3</sup> )
1958 Census <sup>4</sup> .....	750	(NA)	79.6	403.0	54.3	106.0	241.0	722.2	<sup>3</sup> 962.9	<sup>3</sup> 1,724.5	26.2	(NA)	(NA)	( <sup>3</sup> )	( <sup>3</sup> )
INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS															
1972 Census.....	57	33	7.2	67.3	5.0	9.9	38.7	134.1	101.1	232.3	4.5	(NA)	64.2	71	83
1971 ASM.....	(NA)	(NA)	6.4	56.5	4.4	8.7	30.5	114.6	88.3	202.7	2.5	61.7	58.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	7.2	57.8	5.0	9.7	31.5	122.0	92.0	209.0	4.3	61.9	58.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	6.9	55.4	4.8	9.8	30.3	119.5	87.8	204.7	4.3	56.2	49.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.6	47.1	4.5	9.1	26.7	104.5	86.3	188.0	6.6	54.0	44.7	(NA)	(NA)
1967 Census.....	49	23	6.4	45.6	4.3	8.9	25.1	94.8	81.0	174.7	3.8	47.8	43.7	71	80
1966 ASM.....	(NA)	(NA)	8.1	57.6	5.4	11.2	31.6	121.8	96.0	206.9	11.0	(NA)	49.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	8.1	55.9	5.2	10.7	29.0	113.2	90.4	199.7	6.0	(NA)	47.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.3	46.6	4.9	9.7	26.0	102.8	79.0	177.9	2.7	43.4	42.2	(NA)	(NA)
1963 Census.....	43	27	6.8	41.7	4.5	8.9	23.2	91.7	71.2	159.5	2.6	40.7	37.2	73	85
1962 ASM.....	(NA)	(NA)	6.3	38.3	4.0	7.8	19.9	81.7	66.7	143.7	2.7	38.8	33.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.6	33.6	3.6	6.9	17.2	72.0	54.6	125.9	2.4	(NA)	28.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.0	34.9	3.9	7.7	18.6	71.6	54.9	124.3	3.0	(NA)	30.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	6.6	38.4	4.3	8.5	20.4	79.2	66.0	141.2	1.6	(NA)	34.2	(NA)	(NA)
1958 Census.....	32	20	6.2	32.9	3.7	7.1	16.7	64.7	53.8	119.0	2.2	(NA)	28.5	75	89

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio						
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages														
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)									(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
	INDUSTRY 3589.--SERVICE INDUSTRY MACHINERY, N.E.C.																				
1972 Census.....	703	229	24.1	225.6	14.8	29.0	114.6	496.4	417.1	900.9	15.6	(NA)	182.1	90	87						
1971 ASM .....	(NA)	(NA)	22.8	199.7	13.6	26.4	96.2	429.4	395.7	823.2	24.9	155.3	156.7	(NA)	(NA)						
1970 ASM .....	(NA)	(NA)	22.8	186.7	13.3	26.4	93.8	394.0	335.5	726.7	17.1	138.2	147.2	(NA)	(NA)						
1969 ASM .....	(NA)	(NA)	25.2	201.6	16.7	34.2	110.5	427.2	346.2	765.8	15.2	115.9	147.0	(NA)	(NA)						
1968 ASM .....	(NA)	(NA)	22.9	170.6	14.8	29.3	91.6	358.9	318.6	675.6	11.5	104.1	123.0	(NA)	(NA)						
1967 Census.....	575	187	20.9	150.7	13.5	27.2	82.4	313.3	290.7	598.1	10.6	95.2	114.7	89	88						
1966 ASM .....	(NA)	(NA)	20.2	145.5	12.6	27.3	77.3	302.1	284.2	570.8	8.6	(NA)	106.2	(NA)	(NA)						
1965 ASM .....	(NA)	(NA)	17.1	119.2	10.9	23.2	63.3	246.2	233.8	473.3	7.8	(NA)	82.6	(NA)	(NA)						
1964 ASM .....	(NA)	(NA)	14.6	96.9	9.1	18.9	50.2	197.7	183.6	380.9	*5.2	75.2	67.9	(NA)	(NA)						
1963 Census.....	506	142	15.3	96.8	9.5	19.4	51.3	192.4	185.1	378.3	5.3	70.3	68.7	86	84						
1962 ASM .....	(NA)	(NA)	15.3	96.6	10.2	22.5	56.1	205.0	176.6	373.7	*6.2	65.7	58.8	(NA)	(NA)						
1961 ASM .....	(NA)	(NA)	13.5	82.0	8.8	19.7	46.4	181.5	149.2	332.1	3.2	(NA)	50.3	(NA)	(NA)						
1960 ASM .....	(NA)	(NA)	12.9	75.8	8.6	18.1	45.0	153.9	143.6	300.8	3.7	(NA)	48.0	(NA)	(NA)						
1959 ASM .....	(NA)	(NA)	11.8	66.8	8.5	16.4	39.1	138.2	128.4	260.8	*5.8	(NA)	51.2	(NA)	(NA)						
1958 Census .....	359	125	11.7	63.7	7.7	15.1	35.9	125.2	122.0	245.2	3.2	(NA)	47.3	85	81						
INDUSTRY 3592.--CARBURETORS, PISTONS, RINGS, VALVES <sup>5</sup>																					
1972 Census.....	113	72	26.7	272.3	21.6	43.5	207.1	500.0	262.3	744.3	27.1	(NA)	112.5	81	74						
INDUSTRY 3599.--MACHINERY, EXCEPT ELECTRICAL, N.E.C. <sup>5</sup>																					
1972 Census <sup>5</sup> .....	16,284	1,943	157.6	1,422.9	127.0	248.2	1,019.9	2,513.2	1,171.8	3,659.5	121.8	(NA)	415.6	93	94						
1971 ASM .....	(NA)	(NA)	175.7	1,495.6	139.8	279.7	1,081.2	2,664.3	1,222.9	3,884.1	119.0	843.1	498.7	(NA)	(NA)						
1970 ASM .....	(NA)	(NA)	189.6	1,560.4	152.6	311.6	1,140.1	2,774.5	1,220.8	3,976.2	114.4	811.9	497.2	(NA)	(NA)						
1969 ASM .....	(NA)	(NA)	199.9	1,534.8	164.7	336.8	1,146.0	2,703.5	1,239.9	3,937.1	140.8	756.6	426.3	(NA)	(NA)						
1968 ASM .....	(NA)	(NA)	196.7	1,466.6	162.9	332.7	1,101.4	2,569.9	1,183.2	3,759.9	151.2	704.5	374.7	(NA)	(NA)						
1967 Census <sup>6</sup> .....	15,109	2,249	202.5	1,443.1	168.8	346.2	1,092.8	2,531.2	1,198.9	3,712.0	179.1	663.9	368.6	93	94						
1966 ASM .....	(NA)	(NA)	163.9	1,103.7	134.6	284.6	830.9	1,927.4	962.2	2,864.8	136.7	(NA)	300.1	(NA)	(NA)						
1965 ASM .....	(NA)	(NA)	145.9	918.3	118.8	248.8	689.9	1,564.2	767.9	2,329.5	90.0	(NA)	253.9	(NA)	(NA)						
1964 ASM .....	(NA)	(NA)	142.4	885.5	113.9	244.9	659.1	1,529.7	751.0	2,268.8	*82.4	528.8	250.7	(NA)	(NA)						
1963 Census.....	12,090	1,402	135.8	793.6	108.4	224.3	593.1	1,366.3	673.8	2,036.3	71.7	500.7	233.5	90	90						
1962 ASM .....	(NA)	(NA)	139.8	772.4	114.4	224.8	567.6	1,352.0	724.2	2,055.9	*64.7	481.5	265.6	(NA)	(NA)						
1961 ASM .....	(NA)	(NA)	129.5	698.6	104.8	208.8	509.2	1,189.4	636.6	1,830.0	61.9	(NA)	238.7	(NA)	(NA)						
1960 ASM .....	(NA)	(NA)	126.5	672.7	102.4	201.1	489.6	1,150.8	614.4	1,765.1	58.3	(NA)	245.2	(NA)	(NA)						
1959 ASM .....	(NA)	(NA)	130.7	676.1	106.8	207.8	498.0	1,155.6	665.1	1,812.2	58.3	(NA)	252.0	(NA)	(NA)						
1958 Census .....	10,171	1,090	115.7	575.4	91.6	179.7	420.8	959.9	520.7	1,481.3	93.1	(NA)	229.0	92	90						

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3581	Industry 3582	Industry 3585	Industry 3586	Industry 3589	Industry 3592	Industry 3599
1972.....	116	100	655	54	666	98	16,217
1967.....	143	109	(NA)	46	554	(NA)	15,055
1963.....	148	107	(NA)	42	496	(NA)	12,032

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The change in coverage ratio for industry 3582 between 1963 and 1967 results largely from separately identifying coin-operated washer extractor and drying tumblers for commercial laundry equipment. Most of these products were produced by establishments classified in other industries. For 1972, coin-operated washers and dryers, under 10-lb. load, and parts and attachments for these products have been moved from industry 3582 to 3633, Household Laundry Equipment.

<sup>3</sup>The value of shipments and cost of materials for this industry include extensive duplication arising from shipments between establishments in the same industry classification. Accordingly, the specialization and coverage ratios are not shown.

<sup>4</sup>Data on this new industry for 1967, 1963, and 1958 were derived by adding general statistics for former industry 3585, Refrigeration Machinery, with data for product class 34332 from Table 8, "General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization," in Volume II of the 1967, 1963, and 1958 Censuses of Manufactures.

<sup>5</sup>Prior to 1972, industry 3592 was a part of industry 3599.

<sup>6</sup>In 1967 a number of establishments performing "machine shop jobwork" which had previously been classified in other industries were classified in this industry. This change in classification resulted mainly from the fact that a separate product code for such work was introduced in the 1967 Census of Manufactures. Between \$400 and \$600 million in value of shipments was accounted for by establishments which had been classified in other industries in prior years.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3581.--AUTOMATIC MERCHANDISING MACHINES											
1972 Census.....	7,962	(NA)	70	1,904	3.75	.47	.73	(NA)	17,466	46	13.94
1971 ASM.....	7,790	7,360	72	1,816	3.64	.48	.75	.26	15,733	50	11.97
1970 ASM.....	6,856	7,820	70	1,810	3.35	.47	.72	.29	14,378	48	11.35
1969 ASM.....	6,441	6,510	76	1,881	3.01	.47	.72	.25	13,532	48	9.51
1968 ASM.....	6,000	6,340	78	1,963	2.65	.48	.71	.24	12,019	50	7.86
1967 Census.....	5,898	6,300	78	1,896	2.67	.49	.73	.25	14,022	42	9.51
1966 ASM.....	6,155	(NA)	73	2,022	2.55	.48	.75	(NA)	12,560	49	8.49
1965 ASM.....	5,808	(NA)	74	1,958	2.55	.49	.75	(NA)	11,821	49	8.16
1964 ASM.....	5,664	6,380	74	1,960	2.49	.48	.74	.29	11,621	49	8.02
1963 Census.....	5,551	6,090	72	1,989	2.41	.49	.76	.30	10,398	53	7.23
1962 ASM.....	5,346	5,300	71	1,928	2.32	.49	.78	.29	9,775	55	7.15
1961 ASM.....	5,200	(NA)	69	1,988	2.22	.47	.76	(NA)	8,668	60	6.30
1960 ASM.....	5,171	(NA)	74	2,026	2.25	.48	.74	(NA)	11,245	46	7.53
1959 ASM.....	4,899	(NA)	73	2,025	2.07	.50	.76	(NA)	9,722	50	6.56
1958 Census.....	4,693	(NA)	70	1,952	2.02	.54	.80	(NA)	8,195	57	5.96
INDUSTRY 3582.--COMMERCIAL LAUNDRY EQUIPMENT											
1972 Census.....	8,791	(NA)	71	1,970	3.79	.44	.71	(NA)	18,375	48	13.16
1971 ASM.....	8,340	9,800	70	2,000	3.54	.47	.75	.33	16,020	52	11.44
1970 ASM.....	7,707	9,100	69	1,975	3.37	.45	.71	.31	15,862	49	11.65
1969 ASM.....	7,529	5,820	69	1,979	3.50	.47	.76	.22	13,897	54	10.16
1968 ASM.....	7,397	9,690	69	2,128	3.20	.45	.72	.36	14,824	50	10.08
1967 Census.....	6,825	8,400	73	2,056	2.91	.47	.75	.34	12,927	53	8.61
1966 ASM.....	6,674	(NA)	73	2,176	2.61	.48	.75	(NA)	13,202	51	8.34
1965 ASM.....	6,210	(NA)	71	2,099	2.52	.47	.74	(NA)	12,389	50	8.34
1964 ASM.....	5,853	6,790	72	2,088	2.46	.47	.74	.31	11,531	51	7.63
1963 Census.....	5,798	6,850	71	2,058	2.44	.47	.75	.33	10,818	54	7.37
1962 ASM.....	5,708	6,440	68	2,124	2.35	.51	.80	.33	10,210	56	7.03
1961 ASM.....	5,547	(NA)	71	2,033	2.42	.47	.74	(NA)	10,469	53	7.30
1960 ASM.....	5,319	(NA)	68	1,962	2.38	.46	.73	(NA)	10,768	49	8.03
1959 ASM.....	5,325	(NA)	69	2,031	2.30	.48	.75	(NA)	10,387	51	7.36
1958 Census.....	5,038	(NA)	69	2,029	2.19	.45	.73	(NA)	9,997	50	7.11
INDUSTRY 3585.--REFRIGERATION AND HEATING EQUIPMENT											
1972 Census, New SIC...	9,562	(NA)	75	1,984	4.38	.52	.73	(NA)	23,324	41	15.74
1972 Census, Old SIC...	9,600	(NA)	75	1,986	4.38	.52	.73	(NA)	23,506	41	15.87
1967 Census.....	6,725	(NA)	73	2,024	2.98	.55	.75	(NA)	15,501	43	10.43
1963 Census.....	5,954	(NA)	70	1,991	2.67	.55	.78	(NA)	12,191	49	8.75
1958 Census.....	5,062	(NA)	68	1,952	2.27	.56	.79	(NA)	9,072	56	6.81
INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS											
1972 Census.....	9,347	(NA)	69	1,980	3.91	.44	.72	(NA)	18,625	50	13.55
1971 ASM.....	8,828	9,640	69	1,977	3.51	.44	.71	.30	17,906	49	13.17
1970 ASM.....	8,028	8,600	69	1,940	3.25	.44	.72	.30	16,944	47	12.58
1969 ASM.....	8,029	8,140	70	2,042	3.09	.43	.70	.27	17,319	46	12.19
1968 ASM.....	7,136	8,180	68	2,022	2.93	.46	.71	.29	15,833	45	11.48
1967 Census.....	7,104	7,470	68	2,052	2.82	.46	.72	.27	14,776	48	10.65
1966 ASM.....	7,119	(NA)	66	2,095	2.81	.46	.74	(NA)	15,053	47	10.85
1965 ASM.....	6,887	(NA)	64	2,048	2.72	.45	.73	(NA)	13,961	49	10.60
1964 ASM.....	6,426	5,950	68	1,983	2.67	.44	.71	.24	14,166	45	10.56
1963 Census.....	6,166	5,990	66	1,981	2.60	.45	.71	.26	13,551	46	10.29
1962 ASM.....	6,068	6,160	63	1,971	2.54	.46	.73	.27	12,940	47	10.45
1961 ASM.....	5,967	(NA)	63	1,944	2.49	.43	.70	(NA)	12,779	47	10.38
1960 ASM.....	5,797	(NA)	65	1,961	2.43	.44	.72	(NA)	11,890	49	9.34
1959 ASM.....	5,851	(NA)	66	1,976	2.40	.47	.74	(NA)	12,063	49	9.32
1958 Census.....	5,298	(NA)	60	1,895	2.35	.45	.73	(NA)	10,432	51	9.11

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3589.--SERVICE INDUSTRY MACHINERY, N.E.C.											
1972 Census.....	9,361	(NA)	61	1,959	3.95	.46	.71	(NA)	20,598	45	17.17
1971 ASM.....	8,759	6,810	60	1,941	3.64	.48	.72	.19	18,833	47	16.27
1970 ASM.....	8,189	6,060	58	1,985	3.55	.46	.72	.19	17,281	47	14.92
1969 ASM.....	8,000	4,600	66	2,048	3.23	.45	.72	.15	16,952	47	12.49
1968 ASM.....	7,450	4,550	65	1,980	3.13	.47	.72	.15	15,672	48	12.25
1967 Census.....	7,214	4,560	65	2,013	3.03	.49	.74	.16	14,995	48	11.53
1966 ASM.....	7,205	(NA)	63	2,157	2.83	.50	.75	(NA)	14,960	48	11.08
1965 ASM.....	6,991	(NA)	64	2,133	2.73	.49	.75	(NA)	14,439	48	10.63
1964 ASM.....	6,631	5,150	62	2,081	2.65	.48	.74	.20	13,519	49	10.45
1963 Census.....	6,347	4,590	62	2,039	2.64	.49	.75	.19	12,609	50	9.90
1962 ASM.....	6,305	4,290	67	2,200	2.50	.47	.73	.18	13,378	47	9.12
1961 ASM.....	6,053	(NA)	65	2,243	2.35	.45	.70	(NA)	13,408	45	9.20
1960 ASM.....	5,893	(NA)	67	2,099	2.48	.48	.73	(NA)	11,959	49	8.49
1959 ASM.....	5,681	(NA)	72	1,931	2.38	.49	.75	(NA)	11,743	48	8.43
1958 Census.....	5,451	(NA)	66	1,948	2.38	.50	.76	(NA)	10,707	51	8.30
INDUSTRY 3592.--CARBURETORS, PISTONS, RINGS, VALVES <sup>1</sup>											
1972 Census.....	10,199	(NA)	81	2,013	4.76	.35	.72	(NA)	18,726	54	11.49
INDUSTRY 3599.--MACHINERY, EXCEPT ELECTRICAL, N.E.C. <sup>1</sup>											
1972 Census.....	9,024	(NA)	81	1,954	4.11	.32	.71	(NA)	15,946	57	10.13
1971 ASM.....	8,512	4,800	80	2,000	3.87	.31	.70	.22	15,163	56	9.53
1970 ASM.....	8,229	4,280	80	2,041	3.66	.31	.70	.20	14,633	56	8.90
1969 ASM.....	7,677	3,780	82	2,044	3.40	.31	.70	.19	13,524	57	8.03
1968 ASM.....	7,456	3,580	83	2,042	3.31	.31	.70	.19	13,014	57	7.72
1967 Census.....	7,127	3,280	83	2,057	3.16	.32	.71	.18	12,502	57	7.31
1966 ASM.....	6,732	(NA)	82	2,114	2.92	.34	.72	(NA)	11,756	57	6.77
1965 ASM.....	6,293	(NA)	81	2,095	2.77	.33	.72	(NA)	10,719	59	6.29
1964 ASM.....	6,220	3,710	80	2,151	2.69	.33	.72	.23	10,744	58	6.24
1963 Census.....	5,843	3,690	80	2,069	2.64	.33	.72	.25	10,060	58	6.09
1962 ASM.....	5,526	3,440	82	1,966	2.52	.35	.73	.23	9,672	57	6.01
1961 ASM.....	5,395	(NA)	81	1,993	2.44	.35	.73	(NA)	9,185	59	5.70
1960 ASM.....	5,318	(NA)	81	1,964	2.43	.35	.73	(NA)	9,098	58	5.72
1959 ASM.....	5,173	(NA)	82	1,945	2.40	.37	.74	(NA)	8,842	59	5.56
1958 Census.....	4,975	(NA)	79	1,962	2.34	.35	.74	(NA)	8,300	60	5.34

(NA) Not available.

<sup>1</sup>Prior to 1972, industry 3592 was a part of industry 3599.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3585.--Refrigeration and Heating Equipment....	771	443	150.8	3,517.4	7,083.5	(X)	(X)	(X)	(X)	(X)
Old industry 3585.--Refrigeration Machinery.....	737	419	141.8	3,333.2	6,656.5	737	419	141.8	3,333.2	6,656.5
Old industry 3433.--Heating Equipment, Except Electric...	37	24	9.0	184.2	427.0	(X)	(X)	(X)	(X)	(X)

(X) Not applicable.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>35B1-- AUTOMATIC MERCHANDISING MACHINES</b>													
UNITED STATES. . . . .	125	48	10.5	83.6	7.3	13.9	52.1	183.4	152.3	324.4	5.6	10.0	140.6
NORTHEAST REGION. . . . . E1	31	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	44.2
NEW ENGLAND DIVISION. . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION. . . . . E1	27	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW YORK. . . . . E1	14	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.6
NEW JERSEY. . . . . E2	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA. . . . .	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION. . . . .	47	23	5.1	43.0	3.7	6.9	27.0	106.1	83.8	186.2	2.7	5.0	74.4
EAST NORTH CENTRAL DIVISION. . . . .	31	12	1.8	14.6	1.4	2.6	9.7	25.5	22.7	48.1	(D)	2.0	21.5
OHIO. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	17	8	1.1	9.7	.9	1.7	7.0	16.9	12.9	29.1	(D)	1.5	16.0
WISCONSIN. . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . . . .	16	11	3.3	28.4	2.3	4.3	17.3	80.6	61.1	138.1	(D)	3.1	52.9
MINNESOTA. . . . .	8	6	1.1	9.1	.7	1.1	5.2	20.1	19.5	37.3	(Z)	BB	(D)
IOWA. . . . .	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSOURI. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	44.4
SOUTH REGION. . . . .	24	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	17.6
SOUTH ATLANTIC DIVISION. . . . .	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MARYLAND. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST VIRGINIA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ARKANSAS. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION. . . . . E2	23	5	.9	7.3	.7	1.3	4.7	13.3	8.9	22.1	.2	.4	4.6
PACIFIC DIVISION. . . . . E1	18	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.1
CALIFORNIA. . . . . E1	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.1
<b>35B2-- COMMERCIAL LAUNDRY EQUIPMENT</b>													
UNITED STATES. . . . .	107	47	4.8	42.2	3.4	6.7	25.4	88.2	68.9	157.0	1.2	7.5	96.4
NORTHEAST REGION. . . . . E1	26	14	.9	7.7	.6	1.3	4.5	16.0	14.9	30.8	.2	2.2	27.5
NEW ENGLAND DIVISION. . . . . E1	10	5	.3	2.6	.2	.4	1.5	5.3	4.6	9.6	.1	.6	6.1
MASSACHUSETTS. . . . . E1	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION. . . . .	16	9	.6	5.1	.4	.8	3.0	10.7	10.3	21.2	.1	1.5	21.4
NEW YORK. . . . .	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.3
NORTH CENTRAL REGION. . . . .	35	16	1.9	18.6	1.3	2.5	11.0	34.8	27.3	62.6	.3	3.2	41.7
EAST NORTH CENTRAL DIVISION. . . . .	26	13	1.7	16.8	1.2	2.3	10.1	32.3	24.0	56.7	(D)	2.7	39.3
OHIO. . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS. . . . .	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST NORTH CENTRAL DIVISION. . . . .	9	3	.2	1.8	.1	.2	1.0	2.5	3.3	5.9	(D)	.4	2.4
MINNESOTA. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION. . . . .	30	13	1.5	11.3	1.0	2.1	7.0	25.9	20.9	46.3	.5	EE	(D)
SOUTH ATLANTIC DIVISION. . . . .	9	6	.3	2.1	.2	.4	1.2	4.8	5.0	9.8	.2	BB	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	7	2	.5	3.6	.3	.7	2.3	7.2	4.4	11.5	.2	CC	(D)
KENTUCKY. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	14	5	.7	5.5	.5	1.0	3.4	14.0	11.5	25.0	.1	.5	6.9
LOUISIANA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS. . . . .	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION. . . . .	16	4	.6	4.6	.4	.9	2.9	11.4	5.9	17.4	.1	CC	(D)
MOUNTAIN DIVISION. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
UTAH. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION. . . . .	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
<b>35B5-- REFRIGERATION, HEATING EQUIPMENT</b>													
UNITED STATES. . . . .	774	443	150.8	1 442.1	112.6	223.5	978.6	3 517.4	3 714.9	7 083.5	201.2	(NA)	(NA)
NORTHEAST REGION. . . . .	199	115	33.8	346.4	24.8	48.8	226.7	966.4	812.2	1 754.7	53.4	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	33	14	1.6	15.4	1.0	1.9	7.6	36.6	23.9	59.5	1.0	(NA)	(NA)
MASSACHUSETTS. . . . .	20	9	.9	8.9	.5	1.0	3.8	20.7	10.3	30.2	.7	(NA)	(NA)
CONNECTICUT. . . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	166	101	32.1	331.0	23.9	46.9	219.1	929.8	788.3	1 695.2	52.5	(NA)	(NA)
NEW YORK. . . . .	73	41	17.1	184.1	13.6	27.0	136.1	655.0	508.9	1 153.8	41.7	(NA)	(NA)
NEW JERSEY. . . . .	34	22	6.9	60.5	5.0	9.3	39.2	155.9	152.1	292.8	5.5	(NA)	(NA)
PENNSYLVANIA. . . . .	59	38	8.1	86.5	5.3	10.7	43.9	118.9	127.2	248.6	5.2	(NA)	(NA)

See footnotes at end of table.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3585-- REFRIGERATION, HEATING EQUIPMENT--CONTINUED													
NORTH CENTRAL REGION . . . . .	235	160	72.1	732.7	54.3	109.6	513.9	1 603.7	1 842.0	3 459.3	68.7	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	179	123	58.5	610.8	43.8	88.8	432.0	1 396.1	1 552.8	2 895.7	56.4	(NA)	(NA)
DHIO . . . . .	47	34	30.9	352.7	23.8	49.3	258.4	795.5	820.3	1 571.3	35.7	(NA)	(NA)
INDIANA . . . . .	19	15	4.7	36.7	3.3	6.5	26.7	88.3	92.6	181.4	2.6	(NA)	(NA)
ILLINOIS . . . . .	46	35	8.2	76.6	6.3	12.8	54.4	170.4	174.5	334.5	7.8	(NA)	(NA)
MICHIGAN . . . . .	39	23	9.5	96.5	7.1	14.0	67.3	259.3	381.7	642.0	6.7	(NA)	(NA)
WISCONSIN . . . . .	28	16	5.3	48.2	3.2	6.2	25.2	82.6	83.7	166.5	3.7	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	56	37	13.7	121.9	10.5	20.8	81.8	287.6	289.2	563.6	12.3	(NA)	(NA)
MINNESOTA . . . . .	18	12	3.9	36.6	2.8	5.8	22.6	102.6	81.3	177.0	2.5	(NA)	(NA)
IOWA . . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	18	14	5.6	49.5	4.1	7.8	30.2	79.4	101.9	176.3	2.5	(NA)	(NA)
KANSAS . . . . .	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	227	126	37.1	292.1	28.4	54.6	195.2	732.8	907.0	1 585.0	73.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	80	32	7.2	58.9	5.1	9.7	35.4	121.4	128.4	244.2	9.6	(NA)	(NA)
DELAWARE . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND . . . . .	10	7	1.5	13.9	1.1	2.0	8.1	44.9	27.3	65.7	5.1	(NA)	(NA)
VIRGINIA . . . . .	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	8	3	1.1	9.3	.6	1.3	4.9	12.7	18.8	30.4	.4	(NA)	(NA)
SOUTH CAROLINA . . . . .	E4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	11	5	1.0	8.1	.7	1.5	4.8	15.8	20.7	33.8	.4	(NA)	(NA)
FLORIDA . . . . .	E2	38	.5	4.3	.4	.7	2.4	9.4	10.6	20.2	.4	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	39	30	17.5	135.3	14.2	27.1	100.6	324.7	430.8	740.1	25.6	(NA)	(NA)
KENTUCKY . . . . .	6	8	8.2	68.9	6.9	13.0	53.3	154.6	177.2	329.6	11.0	(NA)	(NA)
TENNESSEE . . . . .	20	14	7.1	49.9	5.6	10.2	35.2	137.4	214.8	337.3	10.6	(NA)	(NA)
ALABAMA . . . . .	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	108	64	12.3	97.9	9.0	17.8	59.2	286.6	347.8	600.8	38.3	(NA)	(NA)
ARKANSAS . . . . .	10	7	1.6	10.4	1.3	2.6	7.3	35.5	40.1	73.2	(D)	(NA)	(NA)
OKLAHOMA . . . . .	E1	19	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	77	44	8.9	72.2	6.7	13.2	44.5	215.0	264.4	455.5	(D)	(NA)	(NA)
WEST REGION . . . . .	113	42	7.8	70.9	5.1	10.3	42.8	134.6	153.7	284.4	5.5	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	E2	19	7	2.1	15.9	1.4	3.1	11.8	31.9	64.1	1.4	(NA)	(NA)
COLORADO . . . . .	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA . . . . .	E3	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH . . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	94	35	5.8	55.1	3.7	7.2	31.0	102.6	119.0	220.3	4.1	(NA)	(NA)
OREGON . . . . .	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	82	32	5.5	52.9	3.5	6.9	29.6	98.0	115.7	212.6	4.0	(NA)	(NA)
3586-- MEASURING AND DISPENSING PUMPS													
UNITED STATES . . . . .	57	33	7.2	67.3	5.0	9.9	38.7	134.1	101.1	232.3	4.5	6.4	94.8
NORTHEAST REGION . . . . .	16	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.7
NEW ENGLAND DIVISION . . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	11	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
PENNSYLVANIA . . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CENTRAL REGION . . . . .	22	14	3.8	35.8	2.7	5.3	20.2	74.9	51.4	124.8	2.7	3.8	59.7
EAST NORTH CENTRAL DIVISION. . .	18	10	2.6	25.1	1.8	3.5	13.4	47.5	38.3	84.5	2.1	2.7	42.7
INDIANA . . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST NORTH CENTRAL DIVISION. . .	4	4	1.2	10.8	.9	1.7	6.8	27.5	13.2	40.3	.6	1.2	17.0
MINNESOTA . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
IOWA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION . . . . .	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH ATLANTIC DIVISION. . . . .	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MARYLAND . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA . . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
EAST SOUTH CENTRAL DIVISION. . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
TENNESSEE . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST SOUTH CENTRAL DIVISION. . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3599-- SERVICE INDUSTRY MACHINERY, NEC													
UNITED STATES . . . . .	703	229	24.1	225.6	14.8	29.0	114.6	496.4	417.1	900.9	15.6	20.9	313.3
NORTHEAST REGION . . . . .	E1	168	54	5.1	47.6	3.3	6.4	101.7	83.4	181.3	3.2	5.2	73.1
NEW ENGLAND DIVISION . . . . .	29	9	1.3	13.6	.8	1.6	6.8	31.5	18.0	48.6	.3	1.5	25.0
MASSACHUSETTS . . . . .	17	4	.9	9.2	.5	1.0	4.4	18.6	11.3	29.2	.2	1.2	18.2
CONNECTICUT . . . . .	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	E1	139	45	3.8	34.0	2.5	4.8	70.2	65.4	132.7	2.9	3.7	48.1
NEW YORK . . . . .	58	16	1.4	11.5	.9	1.7	6.3	24.5	17.5	41.8	.9	.9	12.2
NEW JERSEY . . . . .	E2	41	15	.7	7.3	.4	.8	3.3	13.4	18.8	.3	1.4	17.5
PENNSYLVANIA . . . . .	40	14	1.6	15.2	1.2	2.2	9.6	32.4	29.2	59.8	1.7	1.4	18.4

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3589-- SERVICE INDUSTRY MACHINERY, NEC--CONTINUED													
NORTH CENTRAL REGION . . . . .	273	96	12.1	119.5	7.0	13.9	56.8	274.4	221.6	489.2	7.4	10.7	172.2
EAST NORTH CENTRAL DIVISION. . .	201	75	9.3	91.6	5.6	10.9	44.5	213.1	179.1	386.5	5.0	8.2	137.9
OHIO . . . . .	46	16	1.5	13.1	1.0	2.0	7.4	37.0	28.2	65.6	.7	2.0	37.0
INDIANA . . . . .	21	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
ILLINOIS . . . . .	80	38	4.6	47.7	2.6	5.1	21.9	103.9	84.8	186.9	2.6	4.5	71.0
MICHIGAN . . . . .	27	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	16.6
WISCONSIN . . . . .	27	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST NORTH CENTRAL DIVISION. . .	72	21	2.8	27.9	1.5	3.0	12.3	61.3	42.5	102.7	2.5	2.5	34.3
MINNESOTA . . . . .	26	8	2.0	20.3	.9	1.8	8.1	48.5	30.3	77.8	1.6	1.6	25.4
IOWA . . . . .	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	E1 18	8	.6	4.8	.4	.8	2.9	6.9	7.1	14.2	.4	CC	(D)
SOUTH REGION . . . . .	135	39	4.0	32.9	2.6	5.3	18.5	67.6	58.8	126.9	2.7	2.6	34.8
SOUTH ATLANTIC DIVISION. . . . .	65	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	15.8
MARYLAND . . . . .	6	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CAROLINA . . . . .	E2 13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA . . . . .	E1 7	2	.2	1.8	.2	.3	1.2	2.5	3.4	6.5	(D)	88	(D)
FLORIDA . . . . .	24	6	.6	4.5	.4	.9	3.1	9.9	7.9	17.8	.5	.3	4.3
EAST SOUTH CENTRAL DIVISION. . .	18	9	.9	8.2	.5	1.1	3.9	13.9	13.7	28.2	.5	.5	5.6
KENTUCKY . . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	E1 52	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	10.9
ARKANSAS . . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA . . . . .	E2 6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	34	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	7.1
WEST REGION. . . . .	E1 127	40	2.8	25.6	1.8	3.4	13.3	52.6	53.4	103.5	2.2	2.7	35.8
MOUNTAIN DIVISION. . . . .	E2 20	5	.3	2.1	.2	.3	1.2	3.4	3.9	7.3	.4	(NA)	(NA)
PACIFIC DIVISION . . . . .	E1 107	35	2.6	23.6	1.6	3.0	12.1	49.3	49.5	96.2	1.8	2.5	33.6
OREGON . . . . .	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
CALIFORNIA . . . . .	E1 96	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	27.9
3592-- CARBURETORS, PISTONS, RINGS, ETC.													
UNITED STATES. . . . .	113	72	26.7	272.3	21.6	43.5	207.1	500.0	262.3	744.3	27.1	(NA)	(NA)
NORTHEAST REGION . . . . .	22	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	17	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK . . . . .	6	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY . . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	7	4	.9	6.8	.6	1.3	4.4	13.3	7.0	20.2	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	47	34	14.1	143.1	11.3	21.9	109.6	241.9	125.9	364.3	9.5	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	36	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO . . . . .	7	5	.8	7.1	.6	1.1	4.9	13.4	7.9	21.0	(D)	(NA)	(NA)
INDIANA . . . . .	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	7	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN . . . . .	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	11	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	21	15	5.6	45.9	4.7	9.7	36.3	83.2	54.1	131.8	3.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	11	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	9	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	23	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	2	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	21	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	20	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3599-- MACHINERY, EXCEPT ELECTRICAL, NEC													
UNITED STATES. . . . .	E2 16 284	1 943	157.6	1 422.9	127.0	248.2	1 019.9	2 513.2	1 171.8	3 659.5	121.8	202.5	2 531.2
NORTHEAST REGION . . . . .	E2 3 912	479	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	53.8	654.8
NEW ENGLAND DIVISION . . . . .	E2 1 269	156	12.3	109.7	9.9	19.8	78.0	180.4	77.3	254.2	7.4	16.6	192.1
MAINE . . . . .	E5 32	2	.2	1.6	.2	.3	1.1	2.7	1.1	3.8	.2	.3	3.0
NEW HAMPSHIRE . . . . .	E3 66	8	.6	4.8	.5	1.0	3.6	7.8	2.4	10.1	.5	.5	5.5
VERMONT . . . . .	E2 26	4	.3	1.7	.2	.4	1.4	3.0	1.4	4.3	.2	.2	1.8
MASSACHUSETTS . . . . .	E2 540	71	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.0	81.8
RHODE ISLAND . . . . .	E3 106	6	.8	7.2	.7	1.3	4.8	11.6	5.1	16.4	.4	1.1	11.1
CONNECTICUT . . . . .	E2 499	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.5	88.8

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area		1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
		Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
3599-- MACHINERY, EXCEPT ELECTRICAL, NEC--CONTINUED														
NORTHEAST REGION--CONTINUED														
MIDDLE ATLANTIC DIVISION . . .	E2	2 643	323	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	37.2	462.8
NEW YORK . . . . .	E3	1 046	120	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.3	241.0
NEW JERSEY . . . . .	E3	730	71	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.1	87.1
PENNSYLVANIA . . . . .	E1	867	132	9.4	85.3	7.7	15.2	62.2	144.8	74.8	220.1	8.7	11.8	134.6
NORTH CENTRAL REGION . . . . E2														
5 D56		708	58.8	548.3	47.0	91.0	386.9	974.2	480.3	1 439.6	46.0	81.6	1 036.0	
EAST NORTH CENTRAL DIVISION . . E2														
4 003		578	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	63.1	826.0	
OHIO . . . . .	E1	1 218	160	16.1	157.3	12.5	22.6	110.1	281.1	134.6	410.1	(O)	15.9	208.4
INDIANA . . . . .	E2	356	58	FF	(D)	(D)	(D)	(O)	(D)	(O)	(D)	(D)	7.3	84.5
ILLINOIS . . . . .	E1	1 001	141	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.2	207.6
MICHIGAN . . . . .	E2	1 024	145	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19.4	261.7
WISCONSIN . . . . .	E2	364	74	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	5.3	63.9
WEST NORTH CENTRAL DIVISION . . E2														
1 D53		130	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	(O)	18.4	210.0
MINNESOTA . . . . .	E2	338	62	FF	(D)	(D)	(D)	(D)	(D)	(O)	(D)	(O)	4.8	58.3
IDAHO . . . . .	E2	125	13	1.6	12.6	1.3	2.4	9.3	24.3	15.5	39.6	1.2	EE	(D)
MISSOURI . . . . .	E3	312	33	FF	(U)	(O)	(D)	(D)	(D)	(D)	(D)	(D)	7.8	88.3
NEBRASKA . . . . .	E3	64	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.4
KANSAS . . . . .	E3	175	17	1.8	14.7	1.5	2.9	9.9	24.8	13.0	36.8	1.6	3.7	41.5
SOUTH REGION . . . . . E3														
3 545		381	30.5	255.3	24.9	49.1	186.7	463.4	205.2	667.1	23.7	29.8	333.7	
SOUTH ATLANTIC DIVISION . . . . E4														
1 443		171	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	12.1	128.8
DELAWARE . . . . .	E4	27	2	AA	(D)	(D)	(D)	(O)	(D)	(D)	(D)	(D)	.2	2.4
MARYLAND . . . . .	E2	166	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	38.3
VIRGINIA . . . . .	E5	172	26	1.7	13.9	1.4	2.8	10.2	24.6	10.4	34.6	2.7	1.2	11.8
WEST VIRGINIA . . . . .	E5	96	18	1.3	10.8	1.1	2.0	7.7	18.1	9.8	27.9	.9	.8	8.2
NORTH CAROLINA . . . . .	E3	277	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	1.7	19.0
SOUTH CAROLINA . . . . .	E3	115	9	.8	6.7	.7	1.4	4.8	12.2	6.8	19.0	.5	.6	5.3
GEORGIA . . . . .	E4	211	17	1.4	10.6	1.1	2.0	7.7	20.6	9.3	30.3	1.4	1.5	13.2
FLORIDA . . . . .	E4	376	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	2.7	29.6
EAST SOUTH CENTRAL DIVISION . . E4														
601		53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	7.5	81.9
KENTUCKY . . . . .	E4	123	8	EE	(U)	(O)	(D)	(D)	(D)	(O)	(D)	(D)	2.5	28.3
TENNESSEE . . . . .	E4	205	28	EE	(D)	(O)	(D)	(D)	(D)	(O)	(D)	(U)	3.2	34.2
ALABAMA . . . . .	E4	191	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.9
MISSISSIPPI . . . . .	E2	82	7	CC	(U)	(D)	(D)	(D)	(D)	(O)	(D)	(D)	.7	7.4
WEST SOUTH CENTRAL DIVISION . . E3														
1 501		157	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	10.2	123.0
ARKANSAS . . . . .	E4	98	.5	4.1	.5	.9	3.0	7.7	3.2	11.0	.7	.7	.8	8.1
LOUISIANA . . . . .	E2	172	30	EE	(D)	(D)	(D)	(D)	(D)	(O)	(D)	(D)	1.6	21.1
OKLAHOMA . . . . .	E3	213	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	16.3
TEXAS . . . . .	E3	1 018	100	FF	(D)	(D)	(O)	(D)	(D)	(O)	(D)	(D)	6.5	77.5
WEST REGION . . . . . E3														
3 771		375	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	37.3	506.8
MOUNTAIN DIVISION . . . . . E3														
565		64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	46.9
IDAHO . . . . .	E4	43	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WYOMING . . . . .	E2	21	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	E4	148	16	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	1.4	14.5
NEW MEXICO . . . . .	E3	75	4	.4	3.5	.4	.7	2.6	6.2	2.5	8.7	.4	.4	5.6
ARIZONA . . . . .	E2	164	33	2.0	18.5	1.6	3.2	13.6	28.2	10.3	38.3	.9	1.6	17.2
UTAH . . . . .	E3	65	5	.4	3.4	.4	.7	2.5	5.8	3.0	9.0	.4	.6	6.4
PACIFIC DIVISION . . . . . E3														
3 206		311	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	33.1	459.8
WASHINGTON . . . . .	E1	255	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	2.7	40.0
OREGON . . . . .	E2	179	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(O)	1.3	15.9
CALIFORNIA . . . . .	E3	2 733	257	FF	(D)	(D)	(D)	(D)	(D)	(O)	(D)	(O)	28.3	401.2

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available.      (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over



TABLE 2B. General Statistics by Geographic Area<sup>1</sup> on Old (1967) SIC Basis: 1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
	INDUSTRY 3585.--REFRIGERATION AND HEATING EQUIPMENT												
United States.....	737	419	141.8	1,361.3	105.7	210.0	923.8	3,333.2	3,466.1	6,656.5	190.2	94.8	1,479.8
Northeast Region....	192	113	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.3	363.7
New England Division...	29	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	19.7
Massachusetts.....	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Connecticut.....	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	11.1
Middle Atlantic Div....	163	100	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.9	344.0
New York.....	72	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
New Jersey.....	32	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
Pennsylvania.....	59	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.9	104.0
North Central Region.	218	145	65.2	670.1	48.9	99.2	470.4	1,528.8	1,639.0	3,108.7	(D)	46.8	746.4
East North Central Div.	167	111	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	36.9	603.7
Ohio.....	44	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.8	246.6
Indiana.....	15	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	57.5
Illinois.....	43	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	48.0
Michigan.....	38	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.1	179.5
Wisconsin.....	27	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	72.1
West North Central Div.	51	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.9	142.7
Minnesota.....	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	75.1
Iowa.....	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Missouri.....	17	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	42.8
Kansas.....	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Region.....	222	123	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.1	287.9
South Atlantic Division	77	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	58.5
Delaware.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Maryland.....	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	11.5
Virginia.....	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
North Carolina.....	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	14.7
South Carolina.....	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Georgia.....	11	5	1.0	8.1	.7	1.5	4.8	15.8	20.7	33.8	.4	1.0	10.2
Florida.....	38	7	.5	4.3	.4	.7	2.4	9.4	10.6	20.2	.4	.4	4.5
East South Central Div.	37	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	101.7
Kentucky.....	9	8	8.2	68.9	6.9	13.0	53.3	154.6	177.2	329.6	11.0	EE	(D)
Tennessee.....	18	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Alabama.....	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	20.8
Mississippi.....	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
West South Central Div.	108	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.6	127.7
Arkansas.....	10	7	1.6	10.4	1.3	2.6	7.3	35.5	40.1	73.2	(D)	CC	(D)
Oklahoma.....	19	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.4
Texas.....	77	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.4	115.7
West Region.....	105	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	81.9
Mountain Division.....	18	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Colorado.....	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arizona.....	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Utah.....	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Pacific Division.....	87	32	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	(D)
Oregon.....	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
California.....	76	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	67.5

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Automatic merchandise machines (SIC 3581)	Commercial laundry equipment (SIC 3582)	Refrigeration and heating equipment (SIC 3585)	Measuring and dispensing pumps (SIC 3586)	Service industry machinery, n.e.c. (SIC 3589)	Carburetors, pistons, rings, and valves (SIC 3592)	Machinery, except electrical, n.e.c. (SIC 3599)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	94	91	( <sup>2</sup> )	71	90	81	93
COVERAGE RATIO <sup>3</sup> . . . . .DO . .	92	70	( <sup>2</sup> )	87	87	74	94
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	125	107	774	57	703	113	16 284
WITH 1 TO 19 EMPLOYEES . . . . .DO . .	77	60	331	24	474	41	14 341
WITH 20 TO 99 EMPLOYEES . . . . .DO . .	27	38	221	18	166	36	1 811
WITH 100 EMPLOYEES OR MORE . . . . .DO . .	21	9	222	15	63	36	132
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	10.5	4.8	150.8	7.2	24.1	26.7	157.6
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . MILLION DOLLARS .	83.6	42.2	1 442.1	67.3	225.6	272.3	1 422.9
PRODUCTION WORKERS <sup>1</sup>							
AVERAGE FOR YEAR . . . . .1,000 .	7.3	3.4	112.6	5.0	14.8	21.6	127.0
MARCH . . . . .DO . .	7.0	3.5	110.8	5.0	14.3	20.5	121.6
MAY . . . . .DO . .	7.2	3.3	113.0	5.0	14.5	21.1	127.6
AUGUST . . . . .DO . .	7.4	3.4	109.1	5.0	14.9	21.9	129.1
NOVEMBER . . . . .DO . .	7.6	3.4	117.4	4.9	15.5	23.0	129.9
MAN-HOURS . . . . .MILLIONS .	13.9	6.7	223.5	9.9	29.0	43.5	248.2
JANUARY-MARCH . . . . .DO . .	3.5	1.7	54.4	2.5	6.8	10.3	60.5
APRIL-JUNE . . . . .DO . .	3.5	1.7	58.0	2.6	7.2	10.7	62.6
JULY-SEPTEMBER . . . . .DO . .	3.3	1.6	52.9	2.3	7.3	10.9	61.2
OCTOBER-DECEMBER . . . . .DO . .	3.5	1.7	58.1	2.4	7.6	11.6	63.9
WAGES . . . . .MILLION DOLLARS .	52.1	25.4	978.6	38.7	114.6	207.1	1 019.9
COST OF MATERIALS, ETC., TOTAL . . . . .DO . .	152.3	68.9	3 714.9	101.1	417.1	262.3	1 171.8
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .DO . .	138.7	59.3	3 448.1	90.9	370.1	244.6	928.6
COST OF REALES . . . . .DO . .	9.0	7.7	198.8	7.6	32.8	4.7	43.3
FUELS CONSUMED . . . . .DO . .	.9	.4	19.0	.6	2.3	3.0	14.3
PURCHASED ELECTRIC ENERGY . . . . .DO . .	1.2	.7	28.6	1.1	3.3	7.6	29.2
CONTRACT WORK . . . . .DO . .	2.3	.8	20.4	1.0	8.7	2.4	156.4
VALUE OF SHIPMENTS, INCLUDING REALES . . . . .DO . .	324.4	157.0	7 083.5	232.3	900.9	744.3	3 659.5
VALUE OF REALES . . . . .DO . .	10.7	10.1	274.9	11.1	47.8	5.5	62.6
VALUE ADDED BY MANUFACTURE . . . . .DO . .	183.4	88.2	3 517.4	134.1	496.4	500.0	2 513.2
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . .DO . .	75.2	37.5	1 138.5	60.4	162.5	97.6	378.2
FINISHED PRODUCTS . . . . .DO . .	22.2	7.9	458.9	15.5	36.4	34.3	106.7
WORK IN PROCESS . . . . .DO . .	24.3	8.8	327.8	31.0	57.0	37.7	166.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO . .	28.7	20.8	351.7	13.9	69.0	25.6	104.9
END OF YEAR, TOTAL . . . . .DO . .	89.0	36.6	1 330.6	64.2	182.5	112.5	415.6
FINISHED PRODUCTS . . . . .DO . .	29.9	5.7	548.5	15.6	41.4	32.6	110.8
WORK IN PROCESS . . . . .DO . .	28.0	11.1	387.1	33.7	64.7	57.4	188.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DO . .	31.1	19.8	394.9	14.8	76.3	22.5	116.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . .DO . .	5.7	1.2	207.4	4.8	17.4	29.0	143.9
NEW PLANT AND EQUIPMENT, TOTAL . . . . .DO . .	5.6	1.2	201.2	4.5	15.6	27.1	121.8
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .DO . .	1.0	.2	40.0	1.3	4.2	4.6	25.4
NEW MACHINERY AND EQUIPMENT . . . . .DO . .	4.4	.9	161.2	3.2	11.5	22.5	96.4
USED PLANT AND EQUIPMENT . . . . .DO . .	.1	(Z)	6.2	.3	1.8	2.0	22.1

(Z) Less than half of the unit of measurement shown.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.<sup>3</sup>The specialization and coverage ratios are not shown for industry 3585 as the data from which these ratios are obtained include extensive duplication because the products of some establishments in the industry are consumed as materials by other establishments in the industry.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3581-- AUTOMATIC MERCHANOISING MACHINES											
ESTABLISHMENTS, TOTAL. . . . . E1	125	10.5	83.6	7.3	13.9	52.1	183.4	152.3	324.4	5.6	89.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	38	.1	.5	.1	.1	.3	1.2	1.3	2.5	(Z)	.6
5 TO 9 EMPLOYEES . . . . . E7	21	.1	1.0	.1	.2	.6	2.0	2.4	4.3	.1	.9
10 TO 19 EMPLOYEES . . . . . E4	18	.2	1.9	.2	.3	1.2	3.8	4.1	7.7	.3	1.4
20 TO 49 EMPLOYEES . . . . . E1	16	.5	4.0	.4	.7	2.3	6.7	5.8	12.3	.2	2.1
50 TO 99 EMPLOYEES . . . . .	11	.8	6.0	.6	.9	3.1	13.3	8.6	21.4	.3	4.3
100 TO 249 EMPLOYEES . . . . . E2	7	1.1	8.8	.8	1.5	5.6	36.4	20.5	55.7	1.2	14.7
250 TO 499 EMPLOYEES . . . . .	8	3.1	23.1	2.2	4.1	14.6	44.3	41.6	87.8	.9	20.2
500 TO 999 EMPLOYEES . . . . . E1	5	4.4	38.1	3.0	5.9	24.3	75.7	68.0	132.8	2.8	44.8
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	47	.2	1.3	.1	.2	.8	2.7	2.8	5.5	.1	1.3
3582-- COMMERCIAL LAUNORY EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	107	4.8	42.2	3.4	6.7	25.4	88.2	68.9	157.0	1.2	36.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	35	.1	.5	.1	.1	.3	1.4	1.2	2.6	.1	.6
5 TO 9 EMPLOYEES . . . . . E2	11	.1	.6	(Z)	.1	.4	1.7	1.0	2.8	(Z)	.4
10 TO 19 EMPLOYEES . . . . . E5	14	.2	1.4	.1	.3	.9	2.6	1.9	4.4	.1	.8
20 TO 49 EMPLOYEES . . . . . E1	24	.8	7.0	.6	1.2	4.1	15.1	12.3	27.3	.3	6.0
50 TO 99 EMPLOYEES . . . . . E1	14	1.0	8.4	.7	1.4	5.1	16.1	16.3	33.9	.2	6.8
100 TO 249 EMPLOYEES . . . . .	4	.6	5.9	.4	.8	3.0	11.7	10.6	22.5	.1	5.4
250 TO 499 EMPLOYEES . . . . .	4	2.1	18.4	1.4	2.9	11.6	39.5	25.6	63.7	.4	16.6
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	28	.1	.6	.1	.1	.3	1.4	1.2	2.6	.1	.6
3585-- REFRIGERATION, HEATING EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	774	150.8	1 442.1	112.6	223.5	978.6	3 517.4	3 714.9	7 083.5	201.2	1 330.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	159	.3	2.4	.3	.4	1.6	5.3	7.3	12.6	2.1	2.9
5 TO 9 EMPLOYEES . . . . . E5	72	.5	4.5	.4	.7	2.7	8.4	10.7	19.0	.3	3.6
10 TO 19 EMPLOYEES . . . . . E3	100	1.4	11.8	1.0	2.0	7.4	28.0	27.0	54.3	.9	9.7
20 TO 49 EMPLOYEES . . . . . E1	132	4.3	35.7	3.1	6.0	21.9	71.4	79.5	148.8	3.8	26.2
50 TO 99 EMPLOYEES . . . . . E1	89	6.3	53.4	4.6	9.0	32.4	100.6	113.2	214.1	4.9	42.1
100 TO 249 EMPLOYEES . . . . .	103	16.3	131.6	11.8	23.2	81.1	289.8	305.6	582.4	17.8	136.6
250 TO 499 EMPLOYEES . . . . .	54	20.7	183.2	14.4	29.1	113.6	454.2	504.3	912.0	23.6	259.1
500 TO 999 EMPLOYEES . . . . .	35	26.8	230.4	18.8	37.1	146.0	602.5	672.7	1 230.4	50.2	300.2
1,000 TO 2,499 EMPLOYEES . . . . .	20	30.0	279.6	23.6	46.6	202.8	728.4	866.9	1 567.0	37.0	235.1
2,500 EMPLOYEES OR MORE. . . . .	10	44.2	509.5	34.7	69.4	369.1	1 228.8	1 127.7	2 342.7	60.6	314.9
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	160	.5	4.0	.4	.7	2.6	8.3	11.1	19.5	.5	4.5
3586-- MEASURING AND DISPENSING PUMPS											
ESTABLISHMENTS, TOTAL. . . . .	57	7.2	67.3	5.0	9.9	38.7	134.1	101.1	232.3	4.5	64.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	14	(Z)	.3	(Z)	(Z)	.1	.7	.6	1.3	(Z)	.3
5 TO 9 EMPLOYEES . . . . . E3	6	.1	.8	(Z)	.2	.4	2.8	1.3	4.1	.1	.7
10 TO 19 EMPLOYEES . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES . . . . .	12	.4	3.1	.2	.4	1.7	7.3	3.7	10.2	.4	2.6
50 TO 99 EMPLOYEES . . . . .	6	.4	3.8	.3	.6	2.3	11.2	7.3	18.5	.5	3.5
100 TO 249 EMPLOYEES . . . . .	7	2.1	17.9	1.5	3.0	12.0	33.8	26.8	61.4	1.2	14.9
250 TO 499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	4	4.3	41.4	2.9	5.7	22.2	78.2	61.5	136.8	2.3	42.2
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	14	(Z)	.4	(Z)	.1	.2	1.0	.8	1.8	(Z)	.5
3589-- SERVICE INDUSTRY MACHINERY, NEC											
ESTABLISHMENTS, TOTAL. . . . .	703	24.1	225.6	14.8	29.0	114.6	496.4	417.1	900.9	15.6	182.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	264	.5	4.2	.3	.6	2.0	11.7	10.0	22.7	.7	4.7
5 TO 9 EMPLOYEES . . . . . E6	124	.8	7.2	.5	.9	3.7	15.5	13.3	28.5	.7	5.2
10 TO 19 EMPLOYEES . . . . . E2	86	1.2	10.9	.8	1.5	6.0	24.7	22.1	46.5	1.4	7.9
20 TO 49 EMPLOYEES . . . . . E1	109	3.3	29.9	2.1	4.1	16.2	62.2	57.0	118.0	2.2	19.9
50 TO 99 EMPLOYEES . . . . .	57	3.9	35.4	2.4	4.8	17.7	74.5	61.2	151.6	3.1	33.5
100 TO 249 EMPLOYEES . . . . .	45	7.0	63.7	4.4	8.8	34.4	151.6	125.3	276.2	3.3	58.7
250 TO 499 EMPLOYEES . . . . .	12	3.9	34.8	2.4	4.9	18.8	73.5	51.2	121.2	2.8	26.8
500 TO 999 EMPLOYEES . . . . .	6	3.6	39.6	1.8	3.4	15.8	82.7	57.0	136.1	1.5	25.4
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	269	.8	6.8	.5	.9	3.3	17.6	14.4	32.1	.8	6.4

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3592-- CARBURETORS, PISTONS, RINGS, ETC.											
ESTABLISHMENTS, TOTAL. . . . .	113	26.7	272.3	21.6	43.5	207.1	500.0	262.3	744.3	27.1	112.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	8	(2)	.2	(2)	(2)	.2	.7	.1	.8	(2)	.1
5 TO 9 EMPLOYEES . . . . .	12	.1	.9	.1	.1	.7	1.6	.6	2.2	.1	.1
10 TO 19 EMPLOYEES . . . . .	21	.3	2.5	.2	.4	1.6	5.9	3.4	9.2	.1	1.1
20 TO 49 EMPLOYEES . . . . .	20	.6	5.3	.5	1.0	3.9	11.1	7.0	17.8	.5	3.1
50 TO 99 EMPLOYEES . . . . .	16	1.0	7.9	.8	1.6	5.6	15.0	8.8	23.8	.9	4.2
100 TO 249 EMPLOYEES . . . . .	13	2.3	21.2	2.0	4.0	16.0	43.9	28.6	71.2	1.9	12.2
250 TO 499 EMPLOYEES . . . . .	9	3.3	30.0	2.6	5.4	21.8	56.4	29.3	83.6	3.2	17.9
500 TO 999 EMPLOYEES . . . . .	6	4.0	38.1	3.0	5.9	27.5	65.5	27.5	90.1	2.8	21.8
1,000 TO 2,499 EMPLOYEES . . . . .	7	15.1	166.2	12.4	25.1	129.8	299.9	156.9	445.6	17.7	51.9
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3599-- MACHINERY, EXCEPT ELECTRICAL, NEC											
ESTABLISHMENTS, TOTAL. . . . . E2	16 284	157.6	1 422.9	127.0	248.2	1 019.9	2 513.2	1 171.8	3 659.5	121.8	415.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	8 744	14.8	123.7	14.4	24.8	91.5	284.8	129.2	413.6	15.7	47.2
5 TO 9 EMPLOYEES . . . . . E6	3 203	21.1	179.8	16.8	33.8	132.5	328.4	141.8	469.1	16.8	45.7
10 TO 19 EMPLOYEES . . . . . E2	2 394	32.4	289.0	25.8	52.0	211.4	513.6	203.2	712.7	23.8	56.4
20 TO 49 EMPLOYEES . . . . . E1	1 522	44.8	408.8	35.8	70.4	293.2	683.8	301.2	976.9	31.8	88.2
50 TO 99 EMPLOYEES . . . . .	289	19.1	175.3	15.2	30.8	123.8	284.0	151.2	431.7	15.1	52.0
100 TO 249 EMPLOYEES . . . . .	113	16.6	152.3	12.6	25.4	105.0	260.5	152.5	408.4	13.1	75.9
250 TO 499 EMPLOYEES . . . . . E1	16	5.3	47.7	4.2	8.7	33.1	76.1	49.1	122.3	5.6	23.5
500 TO 999 EMPLOYEES . . . . .	2	3.5	46.2	2.3	2.3	29.4	82.0	43.4	124.8	(0)	26.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS, COVERED BY ADMIN. RECORD <sup>1</sup>	9 505	25.8	212.7	22.9	42.4	155.7	431.2	200.9	632.0	23.2	75.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3581	AUTOMATIC MERCHANTISING MACHINES										
	ENTIRE INDUSTRY . . . . .	125	10.5	83.6	7.3	13.9	52.1	183.4	152.3	324.4	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	120	9.4	74.5	6.5	12.2	46.3	166.4	136.5	291.6	5.3
35811	AUTOMATIC MERCHANTISING MACHINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	41	8.4	68.5	5.9	11.3	43.6	153.5	128.0	270.2	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	35	6.6	53.6	4.5	8.5	33.3	127.4	105.2	221.5	4.2
35812	COIN-OPERATED MECHANISMS, PTS. FOR MERCHANTISING MACH. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	12	1.6	11.3	1.0	2.0	6.2	22.5	17.2	39.9	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	1.6	11.3	1.0	2.0	6.2	22.5	17.2	39.9	.5
3582	COMMERCIAL LAUNDRY EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	107	4.8	42.2	3.4	6.7	25.4	88.2	68.9	157.0	1.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	103	3.9	32.7	2.8	5.8	20.8	70.1	56.0	127.5	1.0

See footnote at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3585	REFRIGERATION AND HEATING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	774	150.8	1 442.1	112.6	223.5	978.6	3 517.4	3 714.9	7 083.5	201.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	714	112.2	1 016.3	82.2	161.9	662.2	2 403.5	2 839.5	5 122.9	141.2
35851	HEAT TRANSFER EQPT. (EXC. ROOM, UNITARY AIR-COND) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	115	38.1	376.4	27.8	56.7	247.6	1 134.8	923.1	2 015.0	52.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	89	24.2	229.1	17.3	35.5	145.5	677.9	648.4	1 279.1	24.8
35852	UNITARY AIR CONDITIONERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	53	31.2	289.4	21.9	42.1	178.3	691.6	876.5	1 538.6	53.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	31	11.4	90.9	8.2	15.5	60.7	311.4	297.9	573.3	36.0
35853	COMMERCIAL REFRIGERATION EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	145	16.0	137.6	11.5	23.2	87.9	266.6	262.0	517.2	7.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	124	11.1	94.6	8.1	16.1	60.7	192.3	194.0	378.5	5.8
35854	COMPRESSORS, COMPRESSOR UNITS, ALL REFRIGERANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	27.7	314.3	23.2	46.7	249.4	633.4	708.0	1 308.2	48.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	20	13.7	129.1	11.4	21.5	100.4	250.7	404.3	648.4	24.7
35855	CONDENSING UNITS, ALL REFRIGERANTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	9	2.4	21.1	1.8	3.5	13.6	46.7	70.8	111.9	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
35856	ROOM AIR-CONDITIONERS AND DEHUMIDIFIERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	24	8.6	67.5	6.7	12.1	46.1	192.0	234.8	422.4	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	17	4.3	36.3	3.6	6.9	27.1	83.1	135.1	226.2	4.3
35857	OTHER REFRIG. EQUIP., INCL. SODA, BEER DISPENSING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	73	13.5	122.2	9.6	19.4	78.9	295.6	324.4	606.9	8.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	53	8.2	70.7	6.2	12.2	48.2	202.5	241.0	431.3	4.2
35858	WARM AIR FURNACES (EXC. FLOOR AND WALL), PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	35	9.0	77.0	7.0	13.6	53.0	177.2	236.6	409.6	10.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	16	1.0	6.2	.7	1.3	3.9	11.1	17.7	29.4	.4
3586	MEASURING AND DISPENSING PUMPS										
	ENTIRE INDUSTRY . . . . .	57	7.2	67.3	5.0	9.9	38.7	134.1	101.1	232.3	4.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	42	3.9	34.4	2.7	5.1	20.6	68.1	55.4	124.6	3.0
3589	SERVICE INDUSTRY MACHINERY, NEC										
	ENTIRE INDUSTRY . . . . .	703	24.1	225.6	14.8	29.0	114.6	496.4	417.1	900.9	15.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	659	18.7	172.5	11.4	22.4	87.0	386.0	332.6	709.8	13.1
35891	COMMERCIAL COOKING AND FOOD WARMING EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	82	6.8	63.7	4.6	8.9	36.6	139.6	106.7	240.7	3.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	68	4.0	35.5	3.0	5.7	22.5	77.1	62.3	137.2	2.1
35892	SERVICE INDUSTRY MACHINES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	198	13.4	130.2	7.6	15.2	61.2	286.2	246.5	525.5	8.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	159	9.0	84.5	4.9	9.8	38.6	195.2	175.9	366.9	6.3
35893	COM., INDUS. VACUUM CLEANERS, PARTS, ATTACHMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	18	1.2	9.2	.9	1.7	5.4	22.7	25.8	49.1	.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	10	.5	4.0	.3	.7	2.3	11.6	13.7	25.4	.4
3592	CARBURETORS, PISTONS, RINGS, VALVES										
	ENTIRE INDUSTRY . . . . .	113	26.7	272.3	21.6	43.5	207.1	500.0	262.3	744.3	27.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	96	19.4	185.5	15.9	31.4	143.9	316.3	181.3	489.1	12.8
35921	CARBURETORS, NEW AND REBUILT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	31	12.7	132.6	10.5	21.5	102.4	263.7	141.6	394.2	15.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	27	7.0	60.0	6.1	12.1	50.1	106.8	74.4	178.8	3.6
35922	PISTONS AND PISTON RINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	50	11.0	107.2	8.7	16.7	78.8	169.2	81.9	246.3	9.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	39	9.6	94.4	7.5	14.2	68.9	145.3	68.7	210.1	7.5
35923	VALVES (INTAKE AND EXHAUST) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	22	2.4	27.5	2.0	4.6	22.5	57.7	32.4	88.2	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	20	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3599	MACHINERY, EXCEPT ELECTRICAL NEC										
	ENTIRE INDUSTRY . . . . .	16 284	157.6	1 422.9	127.0	248.2	1 019.9	2 513.2	1 171.8	3 659.5	121.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	15 700	139.5	1 245.2	112.9	222.2	895.8	2 206.1	1 026.5	3 212.9	108.7
35992	PNEUMATIC AND HYDRAULIC CYLINDERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	91	6.9	60.9	5.2	10.8	39.8	112.1	72.3	182.3	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	72	5.3	47.8	3.9	8.1	30.5	90.3	56.4	145.1	2.8
35994	MISCELLANEOUS MACHINERY PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	484	15.7	145.8	11.7	23.3	96.8	253.1	157.2	408.7	10.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	395	11.8	110.3	8.8	17.5	73.2	194.0	126.7	320.7	8.4
35995	RECEIPTS FOR MACHINE SHOP JOB WORK (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	3 198	69.3	659.0	55.4	113.3	477.9	1 073.2	464.7	1 521.3	46.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2 928	60.5	575.4	48.4	98.8	419.5	935.7	391.6	1 314.0	40.6

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. 8 Col. 8 & C				Col. 8 Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3581	Automatic merchandising machines.....1972..	324.4	293.2	17.8	13.4	94	306.3	293.2	13.1	96
	.....1967..	248.0	230.5	6.9	10.7	97	261.2	230.5	30.7	88
3582	Commercial laundry equipment.....1972..	157.0	130.6	13.4	13.0	91	185.3	130.6	54.7	70
	.....1967..	183.1	157.8	14.6	10.6	92	199.6	157.8	41.8	79
3585	Refrigeration and heating equipment.....1972..	7,083.5	(NA)	(NA)	(NA)	( <sup>1</sup> )	6,232.1	(NA)	(NA)	( <sup>1</sup> )
	.....1967..	3,408.1	(NA)	(NA)	(NA)	( <sup>1</sup> )	3,695.4	(NA)	(NA)	( <sup>1</sup> )
3586	Measuring and dispensing pumps.....1972..	232.3	151.8	62.0	18.5	71	183.4	151.8	31.6	83
	.....1967..	174.7	111.5	44.5	18.7	71	139.3	111.5	27.8	80
3589	Service industry machinery, n.e.c.....1972..	900.9	748.1	86.5	66.3	90	864.4	748.1	116.3	87
	.....1967..	598.1	475.5	58.6	64.0	89	539.8	475.5	64.3	88
3592	Carburetors, pistons, rings, and valves...1972..	744.3	589.4	141.8	13.1	81	791.9	589.4	202.5	74
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.....1972..	3,659.5	3,153.8	239.4	266.3	93	3,363.3	3,153.8	209.5	94
	.....1967..	3,712.0	3,103.4	216.8	391.8	93	3,286.1	3,103.4	182.7	94

(NA) Not available.

<sup>1</sup>The total value of shipments of refrigeration and heating equipment includes extensive duplication resulting from the use of products of certain establishments as materials by others within the same industry. Accordingly, the specialization and coverage ratios have not been calculated.

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Automatic merchandising machines (SIC 3581)	Commercial laundry equipment (SIC 3582)	Refrigeration and heating equipment (SIC 3585)	Measuring and dispensing pumps (SIC 3586)	Service industry machinery, n.e.c. (SIC 3589)	Carburetors, pistons, rings, valves (SIC 3592)	Machinery, except electrical, n.e.c. (SIC 3599)	Other industries
	Total shipments and miscellaneous receipts...	(X)	324.4	157.0	<sup>1</sup> 7,083.5	232.3	900.9	744.3	3,659.5	(X)
3581-	Automatic merchandising machines.....	° 306.3	293.2	(under 2)	-	-	(under 2)	-	(under 2)	12.3
35811	Automatic merchandising machines.....	231.5	229.2	-	-	-	(under 2)	-	(under 2)	(under 2)
35812	Coin-operated mechanisms and parts for merchandising machines.....	61.1	50.4	(under 2)	-	-	-	-	-	(over 2)
35810	Automatic merchandise machines, n.s.k.....	13.7	13.6	-	-	-	-	-	-	.1
35820	Commercial laundry equipment.....	185.3	(over 2)	130.6	(5-10)	-	(under 2)	-	-	45.9
3585-	Refrigeration and heating equipment.....	<sup>1</sup> 6,232.1	4.7	-	5,635.3	(under 2)	13.2	-	(under 2)	577.8
35851	Heat transfers equipment (except room and unitary air-conditioners).....	1,680.5	(under 2)	-	1,545.8	-	-	-	(under 2)	133.3
35852	Air-conditioners, room and unitary.....	1,070.6	-	-	1,040.6	-	-	-	(under 2)	(over 2)
35856	Room air-conditioners and dehumidifiers.....	679.6	-	-	454.7	-	(over 2)	-	-	(100-200)
35853	Commercial refrigeration equipment.....	482.3	(over 2)	-	446.4	-	8.4	-	-	24.7
35854	Compressors and compressor units, all refrigerants.....	1,065.4	-	-	977.2	-	-	-	(under 2)	(50-100)
35855	Condensing units, all refrigerants.....	146.8	-	-	144.7	-	-	-	-	2.1
35857	Other refrigeration equipment, including soda and beer dispensing equipment.....	570.3	(under 2)	-	519.8	(under 2)	(2-5)	-	-	47.2
35858	Warm air furnaces (except floor and wall) and parts.....	384.2	-	-	355.7	-	-	-	-	28.5
35850	Refrigeration and heating equipment, n.s.k.....	152.4	-	-	150.3	-	-	-	-	2.1
35860	Measuring and dispensing pumps.....	183.4	-	-	-	151.8	-	-	(under 2)	(over 2)
3589-	Service industry machinery, n.e.c.....	862.2	-	(under 2)	4.2	-	748.1	-	(under 2)	109.2
35891	Commercial cooking and food warming equipment..	217.0	-	(under 2)	(under 2)	-	189.8	-	-	(over 2)
35892	Service industry machines and parts.....	494.3	-	(under 2)	(under 2)	-	420.5	-	-	(over 2)
35893	Commercial and industrial vacuum cleaners, parts, and attachments.....	62.7	-	-	(over 2)	-	51.8	-	(under 2)	8.0
35890	Service industry machinery, n.e.c., n.s.k.....	88.2	-	-	(under 2)	-	86.1	-	-	(over 2)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Automatic merchandising machines (SIC 3581)	Commercial laundry equipment (SIC 3582)	Refrigeration and heating equipment (SIC 3585)	Measuring and dispensing pumps (SIC 3586)	Service industry machinery, n.e.c. (SIC 3589)	Carburetors, pistons, rings, valves (SIC 3592)	Machinery, except electrical, n.e.c. (SIC 3599)	Other industries
	Shipments and miscellaneous receipts--Continued									
3592-	Carburetors, pistons, rings, and valves.....	791.9	-	-	-	-	-	589.4	(100-200)	101.4
35921	Carburetors, new and rebuilt.....	353.3	-	-	-	-	-	275.3	1.1	76.9
35922	Pistons and piston rings.....	229.3	-	-	-	-	-	215.2	(over 2)	(10-20)
35923	Valves, intake and exhaust.....	196.6	-	-	-	-	-	86.5	(50-100)	(over 2)
35920	Carburetors, pistons, rings, and valves, n.s.k.	12.7	-	-	-	-	-	12.5	-	.2
3599-	Machinery, except electrical, n.e.c.....	3,363.3	-	-	(5-10)	(under 2)	.3	14.8	3,153.8	186.6
35992	Pneumatic and hydraulic cylinder.....	189.2	-	-	-	-	-	(under 2)	159.1	(over 2)
35994	Miscellaneous machinery products.....	442.5	-	-	(over 2)	-	(under 2)	13.9	358.2	63.1
35995	Receipts for machinery shop jobwork.....	1,425.8	-	-	(under 2)	-	(under 2)	(under 2)	1,333.7	90.6
35990	Machinery, except electrical, n.e.c., n.s.k....	1,305.8	-	-	-	-	(under 2)	-	1,302.8	(2-5)
	Other product shipments by 4-digit product group:									
2542	Metal partitions and fixtures.....	(X)	-	-	(2-5)	-	(over 2)	-	-	(X)
2842	Polishes and sanitation goods.....	(X)	-	-	-	-	(2-5)	-	-	(X)
3079	Miscellaneous plastics products.....	(X)	(under 2)	-	(over 2)	.1	(under 2)	-	1.1	(X)
3321	Gray iron foundries.....	(X)	-	-	2.2	-	-	(2-5)	2.9	(X)
3361	Aluminum foundries.....	(X)	-	-	-	-	-	9.2	2.0	(X)
3429	Hardware, n.e.c.....	(X)	-	-	(over 2)	(2-5)	(under 2)	(10-20)	1.9	(X)
3433	Heating equipment, except electric.....	(X)	-	-	53.1	-	(under 2)	-	(under 2)	(X)
3441	Fabricated structural metal.....	(X)	-	-	-	-	(2-5)	-	.2	(X)
3443	Fabricated platework (boiler shops).....	(X)	-	-	28.0	(under 2)	2.4	-	2.1	(X)
3444	Sheet metalwork.....	(X)	-	-	5.6	-	(under 2)	-	2.2	(X)
3446	Architectural metalwork.....	(X)	-	-	(5-10)	-	(under 2)	-	.3	(X)
3449	Miscellaneous metalwork.....	(X)	-	-	-	-	(over 2)	-	-	(X)
3451	Screw machine products.....	(X)	-	-	-	(over 2)	-	-	(under 2)	(X)
3462	Iron and steel forgings.....	(X)	-	-	-	-	-	(under 2)	(over 2)	(X)
3469	Metal stampings, n.e.c.....	(X)	-	-	1.4	-	1.4	-	2.7	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	3.8	-	(under 2)	-	-	(X)
3494	Valves and pipe fittings.....	(X)	-	-	14.0	(under 2)	(5-10)	(under 2)	2.9	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	-	-	-	(2-5)	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(2-5)	-	(under 2)	-	(under 2)	-	1.9	(X)
3523	Farm machinery and equipment.....	(X)	-	-	4.8	-	.8	-	1.8	(X)
3531	Construction machinery.....	(X)	-	-	(under 2)	-	(under 2)	-	3.7	(X)
3534	Elevators and moving stairways.....	(X)	-	-	-	(5-10)	(under 2)	-	-	(X)
3535	Conveyors and conveying equipment.....	(X)	-	-	-	(under 2)	(under 2)	-	3.1	(X)
3541	Machine tools, metal cutting types.....	(X)	-	-	(under 2)	(under 2)	-	-	4.1	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	-	-	.3	-	(under 2)	(under 2)	21.1	(X)
3551	Food products machinery.....	(X)	-	-	2.0	-	2.8	-	.7	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	-	1.0	-	(under 2)	-	6.4	(X)
3561	Pumps and pumping equipment.....	(X)	-	-	(under 2)	23.8	9.6	(under 2)	1.7	(X)
3564	Blowers and fans.....	(X)	(under 2)	-	10.0	-	(under 2)	-	-	(X)
3568	Power transmission equipment, n.e.c.....	(X)	-	-	(10-20)	-	-	(under 2)	1.3	(X)
3569	General industrial machinery, n.e.c.....	(X)	-	(over 2)	(2-5)	9.3	5.3	(under 2)	5.5	(X)
3574	Calculating and accounting machines.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3631	Household cooking equipment.....	(X)	-	-	92.1	-	-	-	-	(X)
3632	Household refrigerators and freezers.....	(X)	-	-	(100-200)	-	-	-	-	(X)
3633	Household laundry equipment.....	(X)	-	4.4	(50-100)	-	-	-	-	(X)
3634	Electric housewares and fans.....	(X)	-	-	(10-20)	-	(under 2)	-	-	(X)
3639	Household appliances, n.e.c.....	(X)	-	-	56.3	-	(under 2)	-	-	(X)
3648	Lighting equipment, n.e.c.....	(X)	-	-	(10-20)	-	-	-	-	(X)
3694	Engine electrical equipment.....	(X)	-	-	-	-	-	(5-10)	-	(X)
3699	Electrical equipment and supplies, n.e.c.....	(X)	-	-	36.5	-	(under 2)	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	-	347.4	(5-10)	(under 2)	91.4	12.1	(X)
3724	Aircraft engines and engine parts.....	(X)	-	-	(over 2)	-	-	-	(2-5)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	-	(2-5)	-	-	-	.9	(X)
3795	Tanks and tank components.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3822	Environmental controls.....	(X)	-	-	(5-10)	-	-	-	-	(X)
3832	Optical instruments and lenses.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3841	Surgical and medical instruments.....	(X)	-	-	-	-	(over 2)	-	(under 2)	(X)
	Miscellaneous receipts.....	(X)	13.4	13.0	394.9	18.5	66.3	13.1	266.3	(X)
93000 00	Contract work.....	(X)	(Z)	(under 2)	9.7	(under 2)	2.1	(2-5)	161.2	(X)
99989 00	Resales.....	(X)	10.7	10.1	274.9	11.1	47.8	5.5	62.6	(X)
99980 13	Sales of scrap and refuse.....	(X)	(under 2)	.1	21.6	-	.4	1.9	5.0	(X)
99980 31	Receipts for installation (or construction) of products of this establishment.....	(X)	(Z)	(under 2)	3.4	(Z)	2.6	.5	10.6	(X)
99980 41	Receipts for research and development.....	(X)	-	-	(Z)	-	(Z)	(Z)	3.0	(X)
99980 61	Receipts for repair work.....	(X)	(under 2)	.9	62.4	(under 2)	8.6	1.0	13.5	(X)
99980 98	Other miscellaneous receipts.....	(X)	1.8	0.6	22.9	6.0	4.8	(under 2)	10.4	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts		Other industries	Product code	Industry, class of products, and miscellaneous receipts		Other industries
	Listing of other industries with over \$2 million shipments of primary products				Listing of other industries with over \$2 million shipments of primary products--Continued		
3581	3651	Radio and TV receiving sets.....	(over 2)	3589	3535	Conveyors and conveying equipment.....	(over 2)
3582	3633	Household laundry equipment.....	38.1	3536	Hoists, cranes, and monorails.....	(over 2)	
	3714	Motor vehicle parts and accessories.....	(over 2)	3561	Pumps and pumping equipment.....	9.3	
3585	3351	Copper rolling and drawing.....	(5-10)	3564	Blowers and fans.....	5.8	
	3356	Nonferrous rolling and drawing, n.e.c.....	(over 2)	3569	General industrial machinery, n.e.c.....	25.6	
	3431	Metal sanitary ware.....	(over 2)	3631	Household cooking equipment.....	(2-5)	
	3433	Heating equipment, except electric.....	57.5	3639	Household appliances, n.e.c.....	(5-10)	
	3443	Fabricated platework (boiler shops).....	(5-10)	3728	Aircraft equipment, n.e.c.....	(over 2)	
	3444	Sheet metalwork.....	(10-20)	3823	Process control instruments.....	(over 2)	
	3494	Valves and pipe fittings.....	12.4	3592	3361	Aluminum foundries.....	(over 2)
	3519	Internal combustion engines, n.e.c.....	(10-20)		3494	Valves and pipe fittings.....	(5-10)
	3523	Farm machinery and equipment.....	(2-5)		3694	Engine electrical equipment.....	(over 2)
	3531	Construction machinery.....	(5-10)		3714	Motor vehicle parts and accessories.....	7.7
	3551	Food products machinery.....	6.3	3599	3321	Gray iron foundries.....	3.0
	3559	Special industry machinery, n.e.c.....	(over 2)		3324	Steel investment foundries.....	(2-5)
	3561	Pumps and pumping equipment.....	7.2		3325	Steel foundries, n.e.c.....	2.2
	3564	Blowers and fans.....	(20-50)		3351	Copper rolling and drawing.....	(over 2)
	3567	Industrial furnaces and ovens.....	(over 2)		3361	Aluminum foundries.....	2.9
	3568	Power transmission equipment, n.e.c.....	(over 2)		3441	Fabricated structural metal.....	2.6
	3631	Household cooking equipment.....	(5-10)		3443	Fabricated platework (boiler shops).....	4.4
	3632	Household refrigerators and freezers.....	277.1		3451	Screw machine products.....	2.8
	3633	Household laundry equipment.....	(over 2)		3469	Metal stampings, n.e.c.....	2.3
	3634	Electric housewares and fans.....	10.6		3489	Ordinance and accessories, n.e.c.....	(2-5)
	3711	Motor vehicles and car bodies.....	(over 2)		3494	Valves and pipe fittings.....	10.2
	3714	Motor vehicle parts and accessories.....	28.2		3499	Fabricated metal products, n.e.c.....	2.9
	3728	Aircraft equipment, n.e.c.....	(2-5)		3533	Oil field machinery.....	(2-5)
3586	3494	Valves and pipe fittings.....	(over 2)		3535	Conveyors and conveying equipment.....	2.2
	3523	Farm machinery and equipment.....	(over 2)		3544	Special dies, tools, jigs, and fixtures.....	11.8
	3533	Oil field machinery.....	(over 2)		3553	Woodworking machinery.....	2.2
	3546	Power driven hand tools.....	(over 2)		3559	Special industry machinery, n.e.c.....	5.2
	3559	Special industry machinery, n.e.c.....	(over 2)		3561	Pumps and pumping equipment.....	23.0
	3561	Pumps and pumping equipment.....	(2-5)		3569	General industrial machinery, n.e.c.....	2.4
	3566	Speed changers, drives, and gears.....	(over 2)		3573	Electronic computing equipment.....	4.6
3589	2599	Furniture and fixtures, n.e.c.....	4.3		3579	Office machines, n.e.c.....	(2-5)
	2641	Paper coating and glazing.....	(over 2)		3585	Refrigeration and heating equipment.....	(5-10)
	2899	Chemical preparations, n.e.c.....	(2-5)		3624	Carbon and graphite products.....	(2-5)
	3429	Hardware, n.e.c.....	2.5		3644	Non-current-carrying wiring devices.....	(5-10)
	3449	Miscellaneous metal work.....	(2-5)		3694	Engine electrical equipment.....	(5-10)
					3714	Motor vehicle parts and accessories.....	15.4
					3728	Aircraft equipment, n.e.c.....	5.7

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

<sup>1</sup>The total value of refrigeration and heating equipment includes extensive duplication resulting from the use of products of certain establishments as materials by others within the same industry. Accordingly, the specialization and coverage ratios have not been calculated.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3581--	AUTOMATIC MERCHANDISING MACHINES, TOTAL.....		(X)	306.3	(X)	261.2
35811 00	Automatic Merchandising Machines: <sup>1</sup> As reported in the census of manufactures.....		(X)	231.5	(X)	198.3
	As reported in Current Industrial Reports Series MA-35U <sup>2</sup> .....		(X)	217.6	(X)	186.5
35812 --	Coin-Operated Mechanisms and Parts for Automatic Merchandising Machines.....		(X)	61.1	(X)	45.5
35812 51	Coin-operated mechanisms (for sale separately).....	1,000 units...	(NA)	45.7	(NA)	27.0
35812 69	Parts for automatic merchandising machines, except coin-operated mechanisms.....		(X)	15.4	(X)	18.5
35810 00	Automatic merchandising machines, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	8.2	(X)	14.8
35810 02	Automatic merchandising machines, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	5.5	(X)	2.6

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3582- --	COMMERCIAL LAUNDRY EQUIPMENT, TOTAL.....		(X)	185.3	(X)	<sup>3</sup> 199.6
	Commercial laundry equipment and laundry presses:					
35820 21	Washers only.....	1,000 units...	}	(NA) 12.0	{	8.1
35820 22	Extractors only.....	do.....				3.9
	Washer-extractor combinations:					
35820 13	Coin-operated, over 10-pound load.....	do.....	(NA)	36.7	<sup>3</sup> 159.1	<sup>3</sup> 29.0
35820 14	Other than coin-operated.....	do.....	.7	10.3	4.7	27.6
	Drying tumblers:					
35820 17	Coin-operated, over 10-pound load.....	do.....	(NA)	23.1	<sup>3</sup> 74.0	<sup>3</sup> 16.5
35820 18	Other than coin-operated.....	do.....	(NA)	10.1	7.2	5.2
35820 26	Ironers, flatwork.....	do.....	(NA)	4.9	(NA)	7.4
35820 27	Presses, laundry.....	do.....	2.2	4.7	14.3	21.8
35820 28	Other commercial laundry equipment.....		(X)	15.7	(X)	10.1
35820 29	Parts, attachments, and accessories for commercial laundry, drycleaning, and pressing machinery and equipment, except for washer-extractor combinations and drying tumblers (coin-operated).....		(X)	13.8	(X)	<sup>3</sup> 13.4
	Drycleaning equipment and clothing presses:					
	Drycleaning units:					
35820 32	Coin-operated.....	1,000 units...	2.5	4.7	3.3	4.8
35820 33	Other than coin-operated.....	do.....	}	(X) 8.6	{	7.5
35820 41	Presses, drycleaning.....	do.....				6.9
35820 43	Garment manufacturers' (needle trades) presses.....	do.....	2.7	4.7	.8	1.3
35820 52	Washer-extractors.....	do.....	4.2	15.7	.7	3.9
35820 81	Other drycleaning equipment, including washers, extractors, and reclaiming units.....		(X)	2.9	(X)	13.2
35820 91	Parts, attachments, and accessories.....		(X)	6.4	(X)	8.9
35820 00	Commercial laundry equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	8.4	(X)	7.6
35820 02	Commercial laundry equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.6	(X)	2.2
3585- --	REFRIGERATION AND HEATING EQUIPMENT, TOTAL.....		(X)	<sup>4</sup> 6,232.1	(X)	<sup>4</sup> 3,695.4
	Heat transfer equipment, except room and unitary air conditioners and dehumidifiers: <sup>1 5 6</sup>					
35851 00	As reported in the census of manufactures.....		(X)	1,680.5	(X)	903.2
	As reported in Current Industrial Reports Series MA-35M <sup>7</sup> .....		(X)	1,467.3	(X)	898.7
	Unitary Air Conditioners: <sup>1 5 6</sup>					
35852 00	As reported in the census of manufactures.....		(X)	1,070.6	(X)	530.1
	As reported in Current Industrial Reports Series MA-35M <sup>8</sup> .....		(X)	1,055.4	(X)	513.7
35853 --	Commercial Refrigeration Equipment.....		(X)	482.3	(X)	341.5
	Refrigerated enclosures, including self-contained units, remote units with or without condensing units, and cabinets (excluding cabinets shipped to other manufacturers of commercial refrigeration equipment):					
35853 12	Sectional coolers or cooling rooms of the prefabricated (factory produced) type, including walk-in, roll-in, and combination cooler-display types.....	1,000 units...	38.8	89.9	56.9	76.5
	Reach-in refrigerators and reach-in type vertical display cabinets, with solid or glazed doors:					
35853 15	For normal temperature application, i.e., not intended for frozen foods, ice cream, etc.....	do.....	78.7	52.0	35.5	25.2
35853 18	For low temperature application.....	do.....	45.2	33.8	22.7	19.2
	Display cases for meats, dairy products, produce and other perishables, operated at normal temperatures:					
35853 22	Closed.....	do.....	10.1	8.7	20.7	13.4
	Open self-service:					
35853 24	Single-duty, one level.....	do.....	20.3	18.8	18.7	14.4
35853 26	Double-duty, one level.....	do.....	5.0	5.0	9.3	7.5
35853 28	Multilevel.....	do.....	30.6	38.5	23.0	19.5

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3585- --	REFRIGERATION AND HEATING EQUIPMENT--Continued					
35853	Commercial Refrigeration Equipment--Continued					
	Refrigerated enclosures, including self-contained units, remote units with or without condensing units, and cabinets (excluding cabinets shipped to other manufacturers of commercial refrigeration equipment)--Continued					
	Display cases and cabinets for frozen foods, ice cream and other foods operated at low temperatures, except coin-operated:					
	Frozen food display cases, open, self-service:					
35853 31	One level.....	1,000 units...	56.7	39.3	42.2	28.8
35853 33	Multilevel.....	...do.....	18.1	34.7	9.7	10.3
35853 35	Frozen food cabinets, closed, other than reach-in type.....	...do.....	2.5	3.5	1.5	1.3
35853 36	Ice cream counter freezers, including frozen custard machines.....	...do.....	( <sup>9</sup> )	( <sup>9</sup> )	4.0	6.8
35853 38	Ice cream dispensing and hardening cabinets.....	...do.....	(X)	6.9	19.2	5.8
	Mechanical drinking water coolers: <sup>1 6</sup>					
35853 43	As reported in the census of manufactures.....	.....	(X)	49.4	(X)	38.4
	As reported in Current Industrial Reports Series MA-35M.....	1,000 units...	331.5	48.9	267.9	37.5
	Mechanical beverage-cooling and dispensing equipment, except coin-operated:					
35853 52	Bottled beverage coolers, dry and wet types.....	...do.....	(NA)	9.7	38.7	9.3
35853 57	Bulk beverage dispensers, including malt dispensers and pre-cooler cabinets.....	...do.....	120.0	18.7	12.1	3.6
35853 73	Farm and dairy milk coolers, including immersion type and bulk tank storage coolers.....	...do.....	5.3	12.1	9.2	16.3
35853 98	Other commercial refrigerators, including dough retarders, egg refrigerators, environmental control equipment, laboratory and industrial refrigerators, mortuary refrigerators, etc.....	.....	(X)	<sup>9</sup> 41.1	(X)	27.3
35853 00	Commercial refrigeration equipment, n.s.k.....	.....	(X)	20.2	(X)	18.0
	Compressors and Compressor Units, All Refrigerants: <sup>1 6</sup>					
35854 00	As reported in the census of manufactures.....	.....	(X)	1,065.4	(X)	494.5
	As reported in Current Industrial Reports Series MA-35M <sup>10</sup> .....	1,000 units...	16,692.2	761.6	10,679.8	442.0
	Condensing Units, All Refrigerants: <sup>1 6</sup>					
35855 00	As reported in the census of manufactures.....	.....	(X)	146.8	(X)	73.3
	As reported in Current Industrial Reports Series MA-35M <sup>11</sup> .....	1,000 units...	392.0	78.4	478.4	66.1
	Room Air Conditioners and Dehumidifiers: <sup>1 5 6</sup>					
35856 --	As reported in the census of manufactures.....	.....	(X)	679.6	(X)	<sup>12</sup> 553.3
35856 11	As reported in Current Industrial Reports Series MA-35M <sup>4</sup> .....	1,000 units...	4,363.4	659.4	4,222.6	553.3
35857 --	Other Refrigeration and Air Conditioning Equipment, including Soda Fountain and Beer Dispensing Equipment.....	.....	(X)	570.3	(X)	484.9
35857 11	Soda fountain equipment (cooler box, fountainette, and similar equipment).....	.....	(X)	12.7	(X)	46.6
35857 51	Beer dispensing equipment.....	.....	(X)	2.0	(X)	8.9
35857 94	Evaporative air coolers.....	1,000 units...	(NA)	44.2	(NA)	38.0
35857 96	Other refrigeration machinery and air conditioning equipment....	.....	(X)	93.2	(X)	89.5
35857 97	Complete refrigeration systems shipped to other manufacturers for incorporation into a cabinet, vending machine, or household refrigerator.....	.....	}	402.1	(X)	288.6
35857 98	Other components and accessories for air conditioning and refrigeration equipment.....	.....				
35857 00	Other refrigeration and air conditioning equipment, including soda fountain and beer dispensing equipment, n.s.k.....	.....	(X)	16.1	(X)	13.1
35858 --	Warm Air Furnaces (Except Floor and Wall) and Parts and Attachments <sup>1 5 6</sup> .....	.....	(X)	384.2	(X)	226.4
35858 10	As reported in the census of manufactures.....	.....	(X)	369.8	(X)	215.5
	As reported in Current Industrial Reports Series MA-34N <sup>13</sup> .....	1,000 units...	2,697.9	384.9	1,448.7	215.8
35858 73	Parts for warm air furnaces (excluding registers).....	.....	(X)	14.4	(X)	10.9
35850 00	Refrigeration and air conditioning equipment, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	132.9	(X)	74.3
35850 02	Refrigeration and air conditioning equipment, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	19.5	(X)	13.9

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3586- --	MEASURING AND DISPENSING PUMPS, TOTAL.....		(X)	183.4	(X)	139.3
	Gasoline dispensing pumps, computing type (filling station type):					
35860 11	Single units.....	1,000 units...	78.1	39.7	119.1	56.6
35860 12	Dual units <sup>14</sup> .....	..do.....	(NA)	32.3	14.0	11.5
35860 21	Lubricating-oil outfits, including pump and tank.....	..do.....	(NA)	13.8	(NA)	11.5
35860 31	Lubricating-oil pumps, including barrel pumps.....	..do.....	605.1	11.4	433.8	11.7
35860 41	Grease pumps.....	..do.....	(NA)	10.7	(NA)	13.7
35860 51	Grease guns.....	..do.....	3,347.5	10.5	1,937.0	8.5
35860 98	Other measuring and dispensing pumps (including noncomputing gasoline dispensing pumps).....		(X)	59.1	(X)	21.0
35860 00	Measuring and dispensing pumps, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	4.1	(X)	4.3
35860 02	Measuring and dispensing pumps, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	1.8	(X)	.6
3589- --	SERVICE INDUSTRY MACHINERY, N.E.C., TOTAL.....		(X)	864.4	(X)	539.8
35891 --	Commercial Cooking and Food Warming Equipment.....		(X)	217.0	(X)	158.2
	Nonelectric:					
35891 11	Commercial cooking stoves, ranges, ovens, and broilers (except electric).....	1,000 units...	(NA)	28.7	94.4	29.9
35891 29	Other commercial cooking equipment (except electric), including griddles, toasters, deep-fat fryers, coffee urns, pressure cookers--steam, etc.....	..do.....	(NA)	47.1	(NA)	20.2
35891 31	Commercial food-warming equipment (except electric), including steam tables.....		(X)	7.6	(X)	3.3
	Electric:					
35891 61	Commercial ranges, ovens, and broilers, electric.....	1,000 units...	(NA)	33.6	(NA)	19.1
35891 63	Commercial electronic stoves and ovens.....		(X)	3.2		
35891 71	Other commercial cooking equipment (electric), including griddles, toasters, deep-fat fryers, coffeemakers, coffee urns, etc.....	1,000 units...	152.1	36.7	(X)	35.7
35891 81	Commercial food-warming equipment (electric), including hot food server units and steam tables.....		(X)	34.8	(X)	26.9
35891 85	Parts and accessories for commercial cooking and food-warming equipment.....		(X)	15.5	(X)	8.3
35891 00	Commercial cooking and food warming equipment, n.s.k.....		(X)	9.8	(X)	14.8
35892 --	Service Industry Machines and Parts.....		(X)	496.5	(X)	305.3
	Water Softeners:					
35892 22	Industrial.....	1,000 units...	21.8	19.3	(NA)	22.3
	Farm, household, and commercial:					
35892 25	Manual and semiautomatic.....	..do.....	89.0	6.1	71.7	6.6
35892 28	Automatic.....	..do.....	234.7	52.4	259.0	36.0
35892 35	Floor waxing and polishing machines, commercial and industrial type.....	..do.....	62.7	17.3	79.6	17.8
35892 42	Floor sanding and scrubbing machines, commercial type.....		(X)	21.8	(X)	4.7
35892 61	Carpet sweepers, commercial type.....	1,000 units...	22.4	6.5	( <sup>15</sup> )	( <sup>15</sup> )
35892 71	Dishwashing machines, commercial type.....	..do.....	25.2	45.2	16.7	36.0
35892 81	Sewage purification equipment.....		(X)	91.0	(X)	48.2
35892 91	Other industrial and commercial service machines.....		(X)	192.2	(X)	<sup>15</sup> 105.8
35892 93	Parts and accessories for service industry machines.....		(X)	31.9	(X)	18.8
35892 00	Service industry machines and parts, n.s.k.....		(X)	12.8	(X)	9.2
35893 --	Commercial and Industrial Vacuum Cleaners, Including Parts and Attachments.....		(X)	62.7	(X)	26.0
35893 11	Portable, including attachments and parts.....	1,000 units...	(NA)	43.5	141.0	16.8
35893 98	Central system, including parts and attachments for all types of commercial and industrial vacuum cleaners.....		(X)	15.2	(X)	7.0
35893 00	Commercial and industrial vacuum cleaners, including parts and attachments, n.s.k.....		(X)	4.0	(X)	2.2
35890 00	Service industry machines, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	52.5	(X)	35.6
35890 02	Service industry machines, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	35.7	(X)	14.7

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers					
			Total product shipments and other receipts including inter- plant transfers		Shipments for replacement including shipments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export
			Quantity	Value	Quantity	Value	(million dollars)	(million dollars)
				(million dollars)		(million dollars)		
1972								
3592- --	CARBURETORS, PISTONS, RINGS, VALVES, TOTAL <sup>16</sup> .....	.....	(X)	791.9	(X)	(X)	(X)	(X)
35921 --	Carburetors, New and Rebuilt.....	.....	(X)	353.3	(X)	(X)	(X)	(X)
	Carburetors, new, all types:							
35921 11	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	19.7	296.8	3.4	60.6	189.9	46.3
35921 13	All other carburetors.....	...do.....	5.0	33.0	(X)	(X)	(X)	(X)
35921 71	Carburetors, rebuilt, all types.....	.....	(X)	<sup>16</sup> 23.5	(X)	(X)	(X)	(X)
35922 --	Pistons and Piston Rings.....	.....	(X)	229.3	(X)	(X)	(X)	(X)
	Pistons, all types (machined), excluding rough castings:							
	Aluminum:							
35922 31	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	20.0	58.4	11.2	26.5	30.3	1.6
35922 33	All other aluminum pistons.....	...do.....	9.6	13.1	(X)	(X)	(X)	(X)
	Other than aluminum:							
35922 35	For motor vehicles, passenger cars, trucks, and buses.....	...do.....	.8	6.1	(D)	(D)	(D)	-
35922 37	All other pistons.....	.....			(X)	(X)	(X)	(X)
	Piston rings, all types:							
	Oil type:							
35922 51	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	307.7	47.5	62.6	14.9	30.5	2.1
35922 53	All other oil type piston rings.....	...do.....	7.6	13.0	(X)	(X)	(X)	(X)
	Compression type:							
35922 55	For motor vehicles, passenger cars, trucks, and buses.....	...do.....	347.5	62.5	59.9	14.5	45.1	2.9
35922 57	All other compression type piston rings.....	...do.....	16.1	28.7	(X)	(X)	(X)	(X)
35923 --	Valves, Intake and Exhaust.....	.....	(X)	196.6	(X)	(X)	(X)	(X)
	Valves (intake and exhaust only):							
35923 61	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	223.8	157.3	(D)	(D)	129.7	(D)
35923 63	All other valves.....	...do.....	27.8	39.3	(X)	(X)	(X)	(X)
35920 00	Carburetors, pistons, rings, valves, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	12.7	(X)	(X)	(X)	(X)
1967								
3592- --	CARBURETORS, PISTONS, RINGS, VALVES, TOTAL <sup>16</sup> .....	.....	(X)	<sup>3</sup> 512.7	(X)	(X)	(X)	(X)
35921 --	Carburetors, New and Rebuilt.....	Mil. units.	17.1	189.9	(X)	(X)	(X)	(X)
	Carburetors, new, all types:							
35921 11	For motor vehicles, passenger cars, trucks, and buses.....	...do.....	11.9	154.5	1.8	37.9	(D)	(D)
35921 13	All other carburetors.....	...do.....	3.3	22.6	(X)	(X)	(X)	(X)
35921 71	Carburetors, rebuilt, all types.....	...do.....	<sup>17</sup> 1.9	<sup>17</sup> 12.8	(X)	(X)	(X)	(X)
35922 --	Pistons and Piston Rings.....	.....	(X)	199.2	(X)	(X)	(X)	(X)
	Pistons, all types (machined), excluding rough castings:							
	Aluminum:							
35922 31	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	21.7	51.3	9.0	21.9	27.8	2.0
35922 33	All other aluminum pistons.....	...do.....	16.3	19.3	(X)	(X)	(X)	(X)
	Other than aluminum:							
35922 35	For motor vehicles, passenger cars, trucks, and buses.....	...do.....	2.0	1.5	(D)	(D)	(D)	(D)
35922 37	All other pistons.....	.....	(NA)	3.7	(X)	(X)	(X)	(X)
	Piston rings, all types:							
	Oil type:							
35922 51	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	257.4	31.4	73.0	10.2	20.4	.8
35922 53	All other oil type piston rings.....	...do.....	11.1	10.2	(X)	(X)	(X)	(X)
	Compression type:							
35922 55	For motor vehicles, passenger cars, trucks, and buses.....	...do.....	437.8	55.1	107.0	15.5	37.7	2.1
35922 57	All other compression type piston rings.....	.....	(NA)	26.7	(X)	(X)	(X)	(X)
35923 --	Valves, Intake and Exhaust.....	.....	(X)	107.8	(X)	(X)	(X)	(X)
	Valves (intake and exhaust only):							
35923 61	For motor vehicles, passenger cars, trucks, and buses.....	Mil. units.	131.4	80.9	13.4	8.1	71.3	1.4
35923 63	All other valves.....	.....	(NA)	26.9	(X)	(X)	(X)	(X)
35920 00	Carburetors, pistons, rings, valves, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	15.8	(X)	(X)	(X)	(X)

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments and other receipts including interplants transfers (million dollars)	
		1972	1967
3599--	MACHINERY, EXCEPT ELECTRICAL, N.E.C., TOTAL <sup>18</sup> .....	3,363.3	2,763.2
35992--	Pneumatic and Hydraulic Cylinders <sup>5</sup> .....	189.2	127.5 <sup>9</sup>
35992 42	Pneumatic cylinders (linear motors):		
35992 44	Square head.....	17.7	127.5
	All other.....	37.1	
	Hydraulic cylinders (linear motors):		
35992 46	Square head.....	25.0	
35992 48	All other.....	102.6	
35992 00	Pneumatic and hydraulic cylinders, n.s.k.....	6.8	
35994--	Miscellaneous Machinery Products, Including Flexible Metal Hose and Tubing, Metal Bellows, Etc. <sup>5</sup> .....	442.5	712.5
	Flexible metal hose and tubing:		
35994 11	Copper and copper-base alloy.....	25.5	97.6
35994 13	Aluminum and aluminum-base alloy.....	3.6	
35994 19	Other.....	59.3	
35994 25	Metal bellows.....	16.2	13.9
35994 31	Carnival and amusement park equipment (ferris wheels, merry-go-rounds, etc.), excluding coin-operated amusement machines.....	20.7	547.0
35994 98	Other miscellaneous machinery products.....	262.1	
35994 00	Miscellaneous machinery products, including flexible metal hose and tubing, metal bellows, etc., n.s.k.....	55.1	
35995 11	Receipts for machine shop jobwork <sup>19</sup> .....	1,425.8	1,080.0
35990 00	Miscellaneous machinery, except electrical, n.e.c., for establishments with 10 employees or more. (See note.).....	670.8	561.9
35990 02	Miscellaneous machinery, except electrical, n.e.c., for establishments with less than 10 employees. (See note.).....	635.0	281.3

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>See table 6A-2 for more detailed product data.

<sup>3</sup>Not comparable to 1972 data because of the inclusion in 1967 of coin-operated washer-extractor combinations and drying tumblers of 10-pound loads and under, and parts, attachments, and accessories for coin-operated washer-extractor combinations and drying tumblers. 1972 preliminary shipments for these products are shown in industry 3633 as follows: Washer-extractor combinations, 119.4-thousand units valued at \$21.3 million; drying tumblers, less than \$4.2 million; and parts, attachments, and accessories, \$8.1 million.

<sup>4</sup>The total value of shipments of refrigeration machinery includes extensive duplication resulting from the use of products of some establishments in the industry as materials by others within the same industry.

<sup>5</sup>The product class structure for this industry was revised, effective in 1972.

<sup>6</sup>Data reported in the census of manufactures may differ from comparable figures reported in Current Industrial Reports series MA-35M. The census of manufactures represents total factory shipments, whereas MA-35M figures do not include consignment or warehouse shipments until the time of the final sale, and interplant transfers.

<sup>7</sup>See tables 6A-3 and 6A-8 for detailed product data.

<sup>8</sup>See table 6A-4 for detailed product data.

<sup>9</sup>For 1972, product code 35853 36, Ice cream counter freezers, are included with product code 35853 98 to avoid disclosing the operations of individual companies.

<sup>10</sup>See tables 6A-5 and 6A-6 for detailed product data.

<sup>11</sup>See table 6A-7 for detailed product data.

<sup>12</sup>This figure was derived rather than reported directly in the 1967 census; it was included in 1967 in product classes 35851 and 35852.

<sup>13</sup>See table 6A-9 for detailed product data.

<sup>14</sup>Twin pumps are counted as one unit.

<sup>15</sup>1967 data for product code 35892 61, "Carpet sweepers, commercial type," are included with product code 35892 91, "Other industrial and commercial service machines," to avoid disclosing figures for individual companies.

<sup>16</sup>Industry 3592 is a new industry for 1972; it is made up of the 1967 product class 35991, Carburetors (new), pistons, and piston rings and valves, and the 1967 product code 35992 71, Carburetors, rebuilt, all types.

<sup>17</sup>Data are limited to rebuilding on a factory basis. Rebuilding operations performed in service garages, etc., are excluded from the census of manufactures. Also, these figures may be somewhat understated because of the exclusion of data for establishments with less than 10 employees. Such establishments were typically not included in the mail portion of the census of manufactures, but were included in the published data by the use of estimates from administrative records. These estimates are included in the value shown for product code 35990 02. Although the use of such administrative records tends to create a small understatement for most specific products, the effect is more significant for those products typically produced in small establishments, such as rebuilding facilities.

<sup>18</sup>In 1967, data for old product code 35992 21, Metallic and semimetallic packing, were included in this industry and the value was \$10.2 million. For 1972, these data are included in industry 3293, Gaskets, Packing, and Sealing Devices, and amount to \$55.0 million.

<sup>19</sup>This value consists principally of receipts for work done on materials owned by others. The 1967 value included approximately \$40 million of such receipts reported by establishments classified in industries other than industry 3599. There may be additional values of such work done by other industries reported as miscellaneous receipts rather than as "machine shop jobwork." Comparable data for 1972 will be available in the final report for industry 3599.

TABLE 6A-2. Quantity and Value of Shipments of Coin-Operated Vending Machines: 1972 and 1967

1972 product code	Product	1972		1967	
		Number of machines	Value (\$1,000)	Number of machines	Value (\$1,000)
35811 --	COIN-OPERATED VENDING MACHINES, TOTAL.....	503,584	217,619	538,587	186,483
	Vending Machines for Beverages.....	198,335	141,427	188,906	121,894
	Coffee: <sup>1</sup>				
35811 02	Instant or liquid concentrates.....	6,524	2,490	7,472	4,348
35811 03	Fresh-brew (batch).....				
35811 04	Fresh-brew (single cup).....	24,725	27,020	21,051	23,129
35811 05	Canned beverages (refrigerated) <sup>2</sup> .....	89,377	51,797	51,906	26,809
	Soft drink:				
35811 07	Bottle <sup>2</sup> .....	57,037	29,418	87,600	40,024
35811 08	Cup (postmix).....			12,766	19,820
35811 11	Cup (premix).....	14,582	23,970	3,414	3,376
35811 01, 06, 19	Other vending machines for beverages <sup>3</sup> .....	6,090	6,732	4,697	4,388
	Vending Machines for Confections and Foods.....	180,987	48,758	193,268	39,474
35811 21	Bulk.....	110,545	2,083	112,696	1,900
35811 22	Candy bar.....	32,968	17,706	56,858	19,751
35811 23	Hot canned foods and soups.....	4,666	3,130	4,366	2,494
35811 27	Pastry.....	7,670	3,184		
35811 24, 25,26,29	Other vending machines for confections and foods <sup>4</sup> .....	25,138	22,655	19,348	15,329
	All Other Vending Machines.....	124,262	27,434	156,413	25,115
35811 31	Cigarette.....	55,391	23,984	57,603	21,427
35811 35	Postage stamp.....	4,026	243	5,701	285
35811 33	Ice.....				
35811 39	All other vending machines except for beverages, confections, and foods <sup>5</sup> .....	64,845	3,207	93,109	3,403

<sup>1</sup>These are primarily coffee vending machines though they may also vend hot chocolate and/or hot soup from the same cabinet.

<sup>2</sup>Some vending machines designed and sold to handle bottled soft drinks are also adaptable to canned beverages through the use of a conversion kit. For this reason, the number of factory shipped dispensers for canned beverages may be somewhat less than the number of vending machines put into service.

<sup>3</sup>Includes package milk (indoor and outdoor); milk (bulk or cup); beverage combination (hot and cold); hot beverages such as hot chocolate and/or hot soup (except canned soup) not sold in a combination machine with coffee; and packaged dry ingredients for mixing into beverages.

<sup>4</sup>Includes vending machines for such commodities as apples, cookies, crackers, biscuits, popcorn, ice cream, and packaged chewing gum, as well as multipurpose (refrigerated and nonrefrigerated) vending machines.

<sup>5</sup>Includes vending machines for such products as cosmetics and toiletries, novelties, detergents, newspapers, and stationery supplies.

Source: Current Industrial Reports series MA-35U, "Vending Machines (Coin-operated)."

TABLE 6A-3. Quantity and Value of Shipments of Heat Transfer Equipment: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35851 pt.	HEAT TRANSFER EQUIPMENT, TOTAL.....	.....	(X)	379,922	(X)	276,110
	Evaporative Condensers.....	Units.....	2,888	10,548	2,734	8,370
35851 03	30 tons and under.....	..do.....	1,245	1,876	747	1,094
35851 05	30.1 to 50 tons.....	..do.....	241	475	542	1,146
35851 06	50.1 to 100 tons.....	..do.....	581	1,825	683	1,892
35851 07	Over 100 tons.....	..do.....	821	6,372	762	4,238
	Room Fan-Coil Air-Conditioning Units.....	..do.....	219,620	25,305	308,257	31,637
35851 08	Between the studs.....	..do.....	133,877	16,675	11,266	709
35851 09	Vertical.....	..do.....			194,683	22,609
35851 10	Horizontal.....	..do.....			102,308	8,319
35851 11	Room Air-Induction Units.....	..do.....	92,631	5,301	80,875	3,703
	Central Station Air-Conditioning Units, Motor Driven Fan Type....	..do.....	53,367	60,699	61,952	62,111
35851 12	3 tons and under.....	..do.....	1,937	475	5,434	1,228
35851 13	3.1 tons to 5 tons.....	..do.....	6,324	2,145	6,417	2,384
35851 14	5.1 to 10 tons.....	..do.....	10,647	6,086	10,978	5,305
35851 15	10.1 to 25 tons.....	..do.....	17,823	15,667	17,782	15,091
35851 16	25.1 to 50 tons.....	..do.....	11,256	19,867	14,210	19,783
35851 17	Over 50 tons.....	..do.....	5,380	16,459	7,131	18,320
35851 45	Number of draw-through units.....	..do.....	43,911	(X)	(NA)	(X)
35851 46	Number of blow-through units.....	..do.....	9,456	(X)	(NA)	(X)
35851 01	Packaged Terminal Air-Conditioners <sup>1</sup> .....	..do.....	204,785	53,286	(NA)	(NA)
	Unit Coolers (Refrigeration).....	..do.....	186,434	35,534	147,547	26,587
	Ceiling and wall-mounted types.....	..do.....	185,489	32,145	146,507	23,261
35851 18	1,000 B.t.u./hr. and under.....	..do.....	25,554	818	17,998	503
35851 19	1,001 to 2,000 B.t.u./hr.....	..do.....	44,413	2,013	40,493	1,564
35851 20	2,001 to 4,000 B.t.u./hr.....	..do.....	29,567	2,550	23,963	2,244
35851 21	4,001 to 6,000 B.t.u./hr.....	..do.....	18,099	2,290	15,217	2,160
35851 22	6,001 to 8,000 B.t.u./hr.....	..do.....	12,245	2,064	8,649	1,201
35851 23	8,001 to 12,000 B.t.u./hr.....	..do.....	20,875	4,219	17,233	4,029
35851 24	12,001 to 18,000 B.t.u./hr.....	..do.....	16,393	5,006	10,851	3,172
35851 25	Over 18,000 B.t.u./hr.....	..do.....	18,343	13,185	12,103	8,388
35851 72	Remote units.....	..do.....	144,313	(X)	(NA)	(NA)
35851 74	Single package units.....	..do.....	41,176	(X)	(NA)	(NA)
35851 26	Floor mounted-dry type.....	..do.....	945	3,389	1,040	3,326
35851 27	Floor mounted-spray type.....	..do.....				
	Other Heat Transfer Equipment.....	.....	(X)	189,189	(X)	143,702
	Air-cooled refrigerant condensers, remote type.....	Units.....	14,699	17,240	14,746	14,053
35851 28	5 tons and under.....	..do.....	1,762	411	1,596	358
35851 29	5.1 to 7.5 tons.....	..do.....	1,179	471	1,530	527
35851 30	7.6 to 10 tons.....	..do.....	1,511	724	1,842	762
35851 31	10.1 to 15 tons.....	..do.....	1,801	1,007	1,726	955
35851 32	15.1 to 20 tons.....	..do.....	1,246	990	1,525	1,010
35851 33	20.1 to 30 tons.....	..do.....	2,099	2,026	2,383	2,546
35851 34	Over 30 tons.....	..do.....	5,101	11,611	4,144	7,895
35851 35	Shell-and-tube, shell-and-coil, shell-and-U-tube, tube-in-tube condensers.....	.....	(X)	6,431	(X)	5,187
35851 36	Shell-and-tube, shell-and-coil, shell-and-U-tube, tube-in-tube liquid coolers.....	.....	(X)	4,795	(X)	5,509
35851 37	Liquid-suction heat exchangers, and refrigerant liquid receivers.....	.....	(X)	11,797	(X)	4,407
	Finned coils, air-conditioning and refrigeration type, used with but not including means for air circulation:	.....				
35851 38	Standard steam and steam distributing tube.....	.....	(X)	9,101	(X)	11,265
35851 39	Standard water cooling and/or heating and cleanable tube water.....	.....	(X)	15,281	(X)	17,010
35851 40	Volatile refrigerant cooling.....	.....	(X)	10,845	(X)	8,081
	Coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturers (all types).....	.....	(X)	109,877	(X)	73,359
35851 81	Copper (only).....	Units.....	(X)	1,377	(NA)	(NA)
35851 82	Copper and aluminum.....	..do.....	(X)	78,480	(NA)	(NA)
35851 83	Aluminum (only).....	..do.....	(X)	30,020	(NA)	(NA)
35851 84	All others (including steel).....	..do.....			(NA)	(NA)
35851 42	Factory-assembled, refrigeration-type, finned gravity coils.....	.....	(X)	2,628	(X)	2,520
35851 43	Wetted-surface dehumidifiers.....	.....	(X)	1,394	(X)	2,311

(X) Not applicable. (NA) Not available.

<sup>1</sup>Defined as factory selected combinations of heating and cooling components or assemblies intended to serve an individual room and comprised of (1) heating assembly available with element for use with hot water, steam, and electricity; means for forced heated air circulation and distribution; integral or remote temperature controls; (2) slide-in cooling section with complete refrigerant cycle; (3) room cabinet; (4) provision for outdoor air intake and discharge and accessories, as required, for mounting in a building wall; (5) provisions for air filtration and ventilation; (6) permanent individual branch circuit wiring with a suitable line cord or terminating at a junction box within the room cabinet; and (7) provision for free conditioned-air distribution, or when forced circulation is employed, for minimal duct work having a total external static resistance not exceeding 1/10-inch water.



TABLE 6A-4. Quantity and Value of Shipments of Packaged Air-Conditioning Equipment: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35856 --	Room Air-Conditioners and Dehumidifiers.....	.....	4,972,425	659,400	(X)	553,234
35856 31	Room air-conditioners.....	Units.....	4,423,933	621,475	3,941,425	537,950
	5,999 B.t.u./hr. and under.....	...do.....	685,534	57,500	518,263	42,762
	6,000 to 6,999 B.t.u./hr.: .....	.....				
35856 33	7-1/2 amp. 115 volts.....	...do.....	487,031	47,901	427,182	43,539
35856 35	All other.....	...do.....	182,846	20,220	176,570	16,319
	7,000 to 7,999 B.t.u./hr.: .....	.....				
35856 37	7-1/2 amp. volts.....	...do.....	50,118	8,365	66,811	7,961
35856 39	All other.....	...do.....	24,542	3,225	95,168	11,252
	8,000 to 8,999 B.t.u./hr.: .....	.....				
35856 41	115 volts.....	...do.....	562,001	65,725	365,439	43,711
35856 43	208 to 230 volts.....	...do.....	55,036	7,123	50,372	6,557
	9,000 to 9,999 B.t.u./hr.: .....	.....				
35856 45	115 volts.....	...do.....	99,147	14,294	74,492	9,153
35836 47	208 to 230 volts.....	...do.....	168,055	21,148	130,327	16,730
	10,000 to 10,999 B.t.u./hr.: .....	.....				
35836 51	115 volts.....	...do.....	236,729	34,263	189,436	24,257
35856 53	208 to 230 volts.....	...do.....	53,241	7,870	57,719	7,754
	11,000 to 12,999 B.t.u./hr.: .....	.....				
35856 55	115 volts.....	...do.....	244,309	37,736	253,507	37,886
35856 57	208 to 230 volts.....	...do.....	169,230	25,474	180,211	26,482
	13,000 to 14,999 B.t.u./hr.: .....	...do.....	214,402	37,506	207,035	32,513
35856 63	15,000 to 16,999 B.t.u./hr.: .....	...do.....	175,381	29,860	234,956	36,590
35856 65	17,000 to 19,999 B.t.u./hr.: .....	...do.....	402,816	74,406	403,385	70,477
35856 67	20,000 to 22,999 B.t.u./hr.: .....	...do.....	230,840	44,148	227,583	41,391
35856 68	23,000 to 25,999 B.t.u./hr.: .....	...do.....	234,839	51,045	171,212	35,974
35856 69	26,000 B.t.u./hr. and over.....	...do.....	130,756	35,621	111,757	26,642
35856 11	Electrically operated dehumidifiers mechanically refrigerated- type; self-contained.....	...do.....	568,712	37,748	281,223	15,284
35852 --	Unitary Air-Conditioners.....	...do.....	<sup>1</sup> 2,338,374	1,055,434	<sup>1</sup> 1,004,838	513,788
	Air-conditioners (except window and wall types).....	...do.....	466,796	207,478	132,374	87,748
	Single package (with or without evaporator fan).....	...do.....	463,437	201,880	121,744	76,995
	Horizontal:					
35852 31	Under 27,000 B.t.u./hr.....	...do.....	278,919	63,590	35,319	8,838
35852 33	27,000 to 32,999 B.t.u./hr.....	...do.....	26,516	9,815	10,514	3,565
35852 35	33,000 to 53,999 B.t.u./hr.....	...do.....	79,958	36,457	24,141	10,885
35852 37	54,000 to 64,999 B.t.u./hr.....	...do.....	20,843	14,023	12,914	8,382
35832 39	65,000 to 96,999 B.t.u./hr.....	...do.....	7,749	7,508	3,616	3,953
	97,000 to 134,999 B.t.u./hr.....	...do.....	7,459	8,368	5,056	6,573
35852 43	135,000 to 184,999 B.t.u./hr.....	...do.....	3,922	9,258	1,800	3,676
35852 45	185,000 to 249,999 B.t.u./hr.....	...do.....	2,549	5,389	563	1,521
35852 47	250,000 to 319,999 B.t.u./hr.....	...do.....	1,253	4,984	177	801
35852 49	320,000 to 379,999 B.t.u./hr.....	...do.....	263	1,531		
35852 51	380,000 B.t.u./hr. and over.....	...do.....	434	3,718	172	1,192
	Other than horizontal:					
35852 32	Under 27,000 B.t.u./hr.....	...do.....	909	307	12,752	8,635
35852 34	27,000 to 32,999 B.t.u./hr.....	...do.....	1,256	489		
35852 36	33,000 to 53,999 B.t.u./hr.....	...do.....	11,450	6,987		
35852 38	54,000 to 64,999 B.t.u./hr.....	...do.....	2,536	2,100	5,985	4,570
35852 40	65,000 to 96,999 B.t.u./hr.....	...do.....	5,475	4,900	3,488	3,620
	97,000 to 134,999 B.t.u./hr.....	...do.....	8,993	9,569	2,372	3,303
35832 44	135,000 to 184,999 B.t.u./hr.....	...do.....	1,336	3,424	1,241	2,201
35852 46	185,000 to 249,999 B.t.u./hr.....	...do.....	500	1,525	509	1,146
35852 48	250,000 to 319,999 B.t.u./hr.....	...do.....	1,467	2,207	353	908
35852 50	320,000 to 379,999 B.t.u./hr.....	...do.....	282	1,336	283	879
35852 52	380,000 B.t.u./hr. and over.....	...do.....	368	2,395	489	2,347
	For horizontal units:					
35852 53	Number of air or evaporative cooled units.....	...do.....	429,865	(X)	94,272	(X)
35852 54	Number of water cooled units.....	...do.....				
	For other than horizontal units:					
35832 55	Number of air or evaporative cooled units.....	...do.....	24,099	(X)	27,472	(X)
35852 56	Number of water cooled units.....	...do.....	19,473	(X)		
	Remote-condenser type.....	...do.....	3,359	5,598	10,630	10,753
35852 57	Under 65,000 B.t.u./hr.....	...do.....	447	381	9,567	7,732
35852 58	65,000 to 184,999 B.t.u./hr.....	...do.....	2,150	2,928		
35852 59	185,000 B.t.u./hr. and over.....	...do.....	762	2,289	1,063	3,021

See footnotes at end of table.

TABLE 6A-4. Quantity and Value of Shipments of Packaged Air-Conditioning Equipment: 1972 and 1967—Continued

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	Unitary Air-Conditioners--Continued					
	Year-round-air conditioners, single package and remote-condenser type (except heat pumps).....	Units.....	200,068	222,954	75,210	70,759
35852 21	Under 33,000 B.t.u./hr.....	...do.....	67,461	32,422	15,473	5,637
35852 22	33,000 to 38,999 B.t.u./hr.....	...do.....	32,790	16,949	28,769	16,319
35852 23	39,000 to 43,999 B.t.u./hr.....	...do.....	10,172	5,895		
35852 25	44,000 to 53,999 B.t.u./hr.....	...do.....	21,275	14,952		
35852 26	54,000 to 64,999 B.t.u./hr.....	...do.....	29,947	27,265		
35852 27	65,000 to 134,999 B.t.u./hr.....	...do.....	23,227	43,308	13,805	12,973
					11,700	18,514
35852 29	135,000 to 184,999 B.t.u./hr.....	...do.....	6,217	21,533	5,463	17,316
35852 91	185,000 to 249,999 B.t.u./hr.....	...do.....	3,498	14,862		
35852 92	250,000 to 319,999 B.t.u./hr.....	...do.....	2,458	15,409		
35852 93	320,000 to 379,999 B.t.u./hr.....	...do.....	1,024	8,263		
35852 94	380,000 to 539,999 B.t.u./hr.....	...do.....	1,406	13,900		
35852 98	540,000 to 639,999 B.t.u./hr.....	...do.....	260	3,158		
35852 99	640,000 B.t.u./hr. and over.....	...do.....	333	5,041		
	Heat pumps (except room air-conditioners).....	...do.....	80,843	41,181	73,089	34,593
	Single package:					
35852 61	Under 27,000 B.t.u./hr.....	...do.....	12,639	4,472	12,889	4,289
35852 62	27,000 to 41,999 B.t.u./hr.....	...do.....	21,715	10,650	19,107	8,687
35852 63	42,000 to 64,999 B.t.u./hr.....	...do.....	11,376	8,038	8,309	5,727
35852 64	65,000 B.t.u./hr. and over.....	...do.....	1,182	1,922	1,001	1,373
	Split system heat pumps:					
35852 67	Under 27,000 B.t.u./hr.....	...do.....	7,954	1,646	5,761	1,442
35852 68	27,000 to 41,999 B.t.u./hr.....	...do.....	14,160	6,147	15,650	5,858
35852 69	42,000 to 64,999 B.t.u./hr.....	...do.....	10,655	6,829	8,590	4,924
35852 70	65,000 B.t.u./hr. and over.....	...do.....	1,162	1,477	1,782	2,293
	Split system air-conditioning units.....		(X)	583,821	(X)	320,688
	Air-conditioning condensing units.....	Units.....	1,590,667	448,723	724,165	255,515
35852 71	Under 22,000 B.t.u./hr.....	...do.....	242,740	35,495	62,212	10,695
35852 72	22,000 to 26,999 B.t.u./hr.....	...do.....	344,412	62,296	134,592	24,949
35852 73	27,000 to 32,999 B.t.u./hr.....	...do.....	263,439	61,471	418,420	125,102
35852 74	33,000 to 38,999 B.t.u./hr.....	...do.....	345,481	100,477		
35852 75	39,000 to 43,999 B.t.u./hr.....	...do.....	98,342	33,549		
35852 76	44,000 to 53,999 B.t.u./hr.....	...do.....	112,383	45,084		
35852 78	54,000 to 64,999 B.t.u./hr.....	...do.....	138,054	44,437	65,114	33,932
35852 79	65,000 to 96,999 B.t.u./hr.....	...do.....	18,177	15,213	15,728	13,147
35852 80	97,000 to 134,999 B.t.u./hr.....	...do.....	11,987	13,463	12,431	13,577
35852 81	135,000 to 184,999 B.t.u./hr.....	...do.....	6,960	10,214	7,090	9,840
35852 82	185,000 to 249,999 B.t.u./hr.....	...do.....	3,189	6,522	8,578	24,273
35852 83	250,000 to 319,999 B.t.u./hr.....	...do.....	1,592	3,850		
35852 84	320,000 to 379,999 B.t.u./hr.....	...do.....	1,419	4,200		
35852 87	380,000 to 539,999 B.t.u./hr.....	...do.....	1,160	4,555		
35852 88	540,000 to 639,999 B.t.u./hr.....	...do.....	603	2,860	(NA)	(NA)
35852 89	640,000 B.t.u./hr. and over.....	...do.....	794	4,975	(NA)	(NA)
	Air-conditioning coils.....	...do.....	1,478,115	135,098	716,887	65,173
35852 85	With blower.....	...do.....	429,122	67,679	160,859	27,708
35852 86	Without blower.....	...do.....	1 048,896	67,419	556,028	37,465

(X) Not applicable. (NA) Not available.

<sup>1</sup>Excludes quantity of air-conditioning coils.

TABLE 6A-5. Quantity and Value of Shipments of Compressors and Compressor Units: 1972 and 1967

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35854 --	COMPRESSORS AND COMPRESSOR UNITS, TOTAL <sup>1 2</sup> .....	Units.....	16,692,137	761,573	10,679,834	441,981
	Refrigerants except ammonia.....	..do.....	16,690,600	753,254	10,677,288	431,811
	10 hp. and under hermetic-type motor compressors.....	..do.....	(D)	(D)	7,136,392	272,732
35854 01-29	2.5 hp. and under.....	..do.....	6,990,225	255,128	6,533,875	218,566
35854 30,31	3 to 4 hp.....	..do.....	(D)	(D)	480,440	34,984
35854 32,33	5 to 7.5 hp.....	..do.....	(D)	(D)	122,077	19,182
35854 34	10 hp.....	..do.....	(D)	(D)		
	10 hp. and under open-type compressors (with or without motors).....	..do.....	21,943	2,603	27,740	3,243
35854 35	3/4 hp. and under.....	..do.....	7,486	449	10,931	419
35854 36	1 hp.....	..do.....	11,276	1,131	2,008	101
35854 37	1.5 hp.....	..do.....			7,462	889
35854 38	2 hp.....	..do.....				
35854 39	3 hp.....	..do.....				
35854 41,43	4 to 5 hp.....	..do.....	1,290	304	2,461	564
35854 44	7.5 hp.....	..do.....	1,109	336		
35854 45	10 hp.....	..do.....	782	383		
	Over 10 hp. (open and hermetic types) <sup>3</sup> .....	..do.....	40,748	32,116	27,751	20,318
35854 46	15 hp.....	..do.....	7,216	3,411	5,061	2,003
35854 47	20 hp.....	..do.....	7,501	3,952	5,918	2,590
35854 48	25 hp.....	..do.....	9,667	5,455	4,928	2,547
35854 49	30 hp.....	..do.....	3,619	2,931	3,663	2,571
35854 51	40 hp.....	..do.....	6,316	5,158	3,710	2,950
35854 52	50 hp.....	..do.....	1,320	1,418	892	1,024
35854 53	60 hp.....	..do.....	1,694	2,432	1,394	1,989
35854 54	75 hp.....	..do.....	1,759	3,202	1,114	2,006
35854 55	100 hp.....	..do.....	954	1,967	1,071	2,638
35854 56	Over 100 hp.....	..do.....	702	2,190		
35854 57	Number of open-type units.....	..do.....	8,000	(X)	8,134	(X)
35854 58	Number of hermetic-type units.....	..do.....	32,748	(X)	19,617	(X)
35854 59	Automotive air-conditioning (open type, with or without motor) <sup>4</sup> .....	..do.....	(D)	(D)	3,485,405	135,518
	Ammonia refrigerants.....	..do.....	1,537	8,319	2,546	10,170
35854 61	15 hp. and under.....	..do.....	44	86	168	202
35854 62	20 hp.....	..do.....	150	521	104	156
35854 63	25 hp.....	..do.....			94	199
35854 64	30 hp.....	..do.....			133	353
35854 65	40 hp.....	..do.....			268	733
35854 66	50 hp.....	..do.....	127	549	244	691
35854 67	60 hp.....	..do.....	100	394	393	1,454
35854 68	75 hp.....	..do.....	615	3,595	368	1,473
35854 69	100 hp.....	..do.....			774	4,909
35854 71	101 to 200 hp.....	..do.....				
35854 72	201 hp. and over.....	..do.....				

(X) Not applicable. (D) Withheld to avoid disclosing operations of individual companies.

<sup>1</sup>Represents only those compressors and compressor units produced and shipped separately.<sup>2</sup>Includes units shipped for household refrigerators.<sup>3</sup>Excludes automotive air-conditioning compressors.<sup>4</sup>No detail by horsepower is available for these units.

TABLE 6A-6. Number of Compressor Bodies Assembled: 1972 and 1967

Product	1972 (units) <sup>1</sup>	1967 (units) <sup>1</sup>	Product	1972 (units) <sup>1</sup>	1967 (units) <sup>1</sup>
COMPRESSOR BODIES, TOTAL <sup>2</sup> .....	25,249,485	16,204,211	COMPRESSOR BODIES—Continued		
Refrigerants except ammonia.....	25,248,135	16,201,924	Refrigerants except ammonia—Continued		
Other than automotive air-conditioning:			Other than automotive air-conditioning—Continued		
1/5 hp. and under.....	1,801,860	2,392,510	10 hp.....	31,053	33,032
1/4 hp.....	4,345,959	3,164,834	15 hp.....	27,853	19,482
1/3 hp.....	1,983,378	1,310,742	20 hp.....	14,949	14,341
1/2 hp.....	846,379	1,773,166	25 hp.....	12,592	8,755
3/4 hp.....	846,979		30 hp.....	8,748	8,112
1 hp.....	1,867,957	1,228,739	40 hp.....	8,669	5,174
1.5 hp.....	1,959,667	778,728	50 hp.....	2,293	1,766
2 hp.....			60 hp.....	2,532	2,253
3 hp.....			75 hp.....	2,883	2,391
4 hp.....			100 hp. and over.....	3,358	1,918
5 hp.....	1,209,086	656,292			
7.5 hp.....	354,690	108,660	Automotive air-conditioning <sup>4</sup> .....	9,527,603	3,485,405
	294,557	188,832	Ammonia refrigerants.....	1,350	2,287
	95,090	56,258			

<sup>1</sup>Includes units for household refrigerators.<sup>2</sup>Represents the total number of compressor bodies assembled, whether shipped separately or incorporated into a condensing package or unitary end-use product, such as single package air-conditioners, freezers, and refrigerators.<sup>3</sup>Excludes

automotive air-conditioning units produced and consumed in the same establishment.

<sup>4</sup>No detail by horsepower is available for these units.



TABLE 6A-7. Quantity and Value of Shipments of Condensing Units: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35855 --	CONDENSING UNITS, TOTAL <sup>1</sup> .....	Units.....	393,406	78,632	478,448	66,108
	Air cooled.....	...do.....	374,540	62,549	453,817	51,230
	Open type.....	...do.....	5,740	1,549	7,731	1,626
35855 21	3/4 hp. and under.....	...do.....	3,373	485	3,948	358
35855 22	1 hp.....	...do.....	387	87	945	160
35855 23	1.5 hp.....	...do.....	317	102	580	142
35855 24	2 hp.....	...do.....	379	152	876	248
35855 25	Over 2 hp. but under 15 hp.....	...do.....	1,284	723	1,382	718
	Hermetic type.....	...do.....	368,800	61,000	446,086	49,604
35855 01-03	1/5 hp. and under.....	...do.....	169,462	10,205	87,509	4,894
35855 27	1/4 hp.....	...do.....			61,430	2,747
35855 28	1/3 hp.....	...do.....			90,841	4,628
35855 29	1/2 hp.....	...do.....	76,670	6,913	87,317	6,340
35855 30	3/4 hp.....	...do.....			35,747	3,559
35855 31	1 hp.....	...do.....			21,000	2,972
35855 32	1.5 hp.....	...do.....	14,054	4,693	15,603	3,428
35855 33	2 hp.....	...do.....			14,919	4,245
35855 34	2.5 hp.....	...do.....			17,385	6,784
35855 35	3 hp.....	...do.....	22,143	9,778	14,335	10,007
35855 36	4 hp.....	...do.....				
35855 37	Over 4 hp. but under 15 hp.....	...do.....				
	Water cooled.....	...do.....	15,197	5,582	21,205	7,285
	Open type.....	...do.....	1,271	661	2,189	1,040
35855 38	1.5 hp. and under.....	...do.....	270	112	671	206
35855 39	2 hp.....	...do.....	131	45		
35855 41	3 hp.....	...do.....	318	99		
35855 42,43	4-5 hp.....	...do.....	262	158	491	251
35855 44	7.5 hp.....	...do.....	161	131	282	176
35855 45	10 hp.....	...do.....	129	116	204	201
	Hermetic type.....	...do.....	13,926	4,921	19,016	6,245
35855 47	1/2 hp. and under.....	...do.....	2,179	294	2,617	321
35855 49	3/4 hp.....	...do.....	2,178	359	2,723	398
35855 51	1 hp.....	...do.....	2,434	504	2,740	506
35855 52	1.5 hp.....	...do.....	1,586	451	2,276	554
35855 53	2 hp.....	...do.....	1,347	455	2,222	688
35855 54	3 hp.....	...do.....	1,540	705	2,415	954
35855 55,56	4-5 hp.....	...do.....	1,127	729	2,066	1,202
35855 57	7.5 hp.....	...do.....	927	874	1,116	912
35855 59	10 hp.....	...do.....	608	550	841	710
	Water or air cooled, open and hermetic type.....	...do.....	3,669	10,231	3,426	7,593
35855 61	15 hp.....	...do.....	1,164	1,912	791	984
35855 62	20 hp.....	...do.....	835	1,668	834	1,324
35855 63	25 hp.....	...do.....	367	1,173	367	646
35855 64	30 hp.....	...do.....	373	1,022	465	867
35855 65	40 hp.....	...do.....	284	944	269	746
35855 66	50 hp.....	...do.....	194	773	203	535
35855 67	60 hp.....	...do.....	139	690	183	727
35855 68	75 hp.....	...do.....	80	399	152	689
35855 69	Over 75 hp.....	...do.....	33	1,650	162	1,075
35855 71	Number of open-type units.....	...do.....	684	(X)	1,035	(X)
35855 72	Number of hermetic-type units.....	...do.....	2,985	(X)	2,391	(X)

(X) Not applicable.

<sup>1</sup>Includes units shipped for household refrigerators. Ammonia refrigerants are excluded.

TABLE 6A-8. Quantity and Value of Shipments of Other Air-Conditioning and Refrigeration Equipment: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35851 pt.	OTHER AIR-CONDITIONING AND REFRIGERATION EQUIPMENT, TOTAL.....	.....	(X)	1,087,467	(X)	622,570
	Centrifugal liquid chilling packages.....	Units.....	3,846	93,886	3,447	79,490
	Hermetic type.....	..do.....	(D)	(D)	2,983	64,341
35851 47	100 hp. and under.....	..do.....	(D)	(D)	930	13,164
35851 48	101 to 200 hp.....	..do.....			875	15,768
35851 49	201 to 300 hp.....	..do.....			507	10,970
35851 50	301 to 400 hp.....	..do.....			178	4,613
35851 51	401 to 500 hp.....	..do.....	409	10,718		
35851 52, 53	Over 500 hp.....	..do.....	628	25,894	493	19,826
	Open type.....	..do.....	297	14,110	464	15,149
35851 54	200 hp. and under.....	..do.....	297	14,110	101	1,702
35851 55	201 to 300 hp.....	..do.....			122	2,416
35851 56	301 to 400 hp.....	..do.....			71	1,603
35851 57	401 to 500 hp.....	..do.....			19	739
35851 58	501 to 1,000 hp.....	..do.....			87	3,614
35851 59	Over 1,000 hp.....	..do.....			64	5,075
35851 62	Number of water chilling units.....	..do.....	3,775	(X)	3,447	(X)
35851 66	Number of brine chilling units.....	..do.....				
35851 75	Absorption liquid chilling systems.....	..do.....	2,259	29,460	1,764	26,021
35851 76	Adsorption and open-type absorption systems.....	..do.....			921	2,601
	Mobile vehicle refrigeration systems.....	..do.....	60,645	101,257	43,341	73,761
35851 77	Mechanical refrigeration systems--railway freight cars.....	..do.....	1,032	3,814	2,197	5,551
35851 78	Mechanical refrigeration systems--other mobile vehicles.....	..do.....	59,343	97,443	41,144	68,210
35851 79	Mobile vehicle mechanical air-conditioning systems: For passenger automobiles <sup>1</sup> .....	..do.....	5,855,486	637,464	3,190,331	327,566
35851 80	For truck, agriculture and construction machinery cabs (excludes mobile home, bus and truck van systems).....	..do.....	370,015	41,207		
	Icemaking machines.....	..do.....	132,396	74,897	82,866	43,564
	Self-contained.....	..do.....	131,649	73,727	82,146	42,084
	Ice-cube makers.....	..do.....	106,494	51,896	56,289	26,751
35851 60	Automatic, 100 lb. and under.....	..do.....	40,066	7,680	8,985	1,955
35851 61	Automatic, 101 lb. to 200 lb.....	..do.....	8,279	3,640	6,524	2,135
35851 63	Automatic, 201 lb. to 300 lb.....	..do.....	24,075	13,623	20,698	8,760
35851 64	Automatic, 301 lb. to 400 lb.....	..do.....	8,804	5,691	7,032	4,167
35851 65	Automatic, 401 lb. to 600 lb.....	..do.....	14,161	11,710	12,184	7,398
35851 67	All others (automatic, over 600 lb. and nonautomatic).....	..do.....	6,109	9,546	866	2,336
35851 68	Flake or chip machines.....	..do.....	30,155	21,831	25,857	15,333
35851 69	200 lb. and under.....	..do.....	2,123	874	2,590	887
35851 70	201 lb. to 400 lb.....	..do.....	12,098	7,119	10,075	4,377
35851 71	401 lb. to 600 lb.....	..do.....	9,285	7,036	4,311	2,483
35851 72	601 lb. to 1,000 lb.....	..do.....	4,766	4,045	5,714	3,990
35851 73	1,000 lb. and over.....	..do.....	1,883	2,754	3,167	3,596
35851 86	Not self-contained.....	..do.....	747	1,170	720	1,480
35851 87	Reciprocating liquid chilling packages.....	..do.....	18,660	61,910	9,693	41,229
35851 88	20 hp. and under.....	..do.....	11,651	12,918	3,233	4,990
35851 89	21 to 49 hp.....	..do.....	2,357	10,552	2,393	8,897
35851 90	50 to 75 hp.....	..do.....	2,611	17,494	2,292	12,787
	Over 75 hp.....	..do.....	2,041	20,946	1,775	14,555
35851 97	Number of water chilling units.....	..do.....	4,608	(X)	6,639	(X)
35851 98	Number of other chilling units.....	..do.....	4,052	(X)	3,054	(X)
35851 99	Number of open-type units.....	..do.....	442	(X)	1,113	(X)
35851 00	Number of hermetic-type units.....	..do.....	18,218	(X)	8,580	(X)
	Factory-fabricated water-cooling towers <sup>2</sup> .....	..do.....	14,747	47,384	22,143	28,338
	Mechanical-draft type.....	..do.....	(D)	(D)	(D)	(D)
	Field assembled:					
35851 92	20 tons and under.....	..do.....	(D)	(D)	(D)	(D)
35851 93	20.1 tons and over.....	..do.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Factory assembled:					
35851 94	20 tons and under.....	..do.....	(D)	(D)	(D)	(D)
35851 95	20.1 tons and over.....	..do.....	<sup>3</sup> 10,010	<sup>3</sup> 45,833	<sup>3</sup> 10,937	<sup>3</sup> 25,365
35851 96	Natural-draft type, all sizes.....	..do.....	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies. In some cases figures which are otherwise publishable are withheld to avoid indirect disclosure by subtraction from higher-level totals or from related figures.

<sup>1</sup>Both quantity and value figures exclude systems assembled from purchased components and installed at passenger automobile assembly lines. In addition, for the systems shown, the values are understated because of the exclusion of compressors for some systems. The value understatement, for this reason, is between 25 and 50 percent.

<sup>2</sup>Towers which are prefabricated and shipped either as a factory-assembled section or as major components for assembly at the site of the installation.

<sup>3</sup>Data for product code 35851 93, Field assembled, mechanical-draft type, factory-fabricated water-cooling towers (20.1 tons and over), are included with product code 35851 95, Factory assembled, mechanical-draft type, factory-fabricated water-cooling towers (20.1 tons and over).

TABLE 6A-9. Quantity and Value of Shipments of Warm Air Furnaces: 1972 and 1967

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
35858 --	WARM AIR FURNACES, TOTAL..... (As reported in Current Industrial Reports series MA-34N)	Units.....	2,697,926	384,859	1,448,651	215,774
	Forced-air type (cast iron and steel).....	...do.....	2,696,504	384,665	1,443,007	214,987
	Solid fuel (coal, coke, and wood):					
35858 01	150,000 B.t.u. Bonnet output and under.....	...do.....	481	142	2,284	601
35858 02	Over 150,000 B.t.u. Bonnet output.....	...do.....			145	97
	Oil:					
35858 04	150,000 B.t.u. output and under.....	...do.....	410,791	83,137	284,957	54,282
35858 05	150,001 to 400,000 B.t.u. Bonnet output.....	...do.....	18,313	5,788	13,746	5,472
35858 06	Over 400,000 B.t.u. Bonnet output.....	...do.....	1,203	3,634		
	Gas:					
35858 07	150,000 B.t.u. Bonnet output and under.....	...do.....	2,231,912	272,371	1,118,607	140,665
35858 08	150,001 to 400,000 B.t.u. Bonnet output.....	...do.....	31,094	8,367	23,268	13,870
35858 09	Over 400,000 B.t.u. Bonnet output.....	...do.....	2,710	11,226		
	Gravity air-flow type (cast iron and steel).....	...do.....	1,422	194	5,644	787
35858 31	Solid fuel (coal, coke, and wood).....	...do.....	1,422	194	1,780	344
35858 35	Oil.....	...do.....			33	10
35858 37	Gas.....	...do.....			3,831	433

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AUTOMATIC MERCHANDISING MACHINES (35811)			COIN-OPERATED MECHANISMS AND PARTS FOR AUTOMATIC MERCHANDISING MACHINES (35812)		
United States.....	231.5	198.3	United States.....	61.1	45.5
Northeast Region.....	56.7	54.0	Northeast Region.....	14.3	5.3
New England Division.....	EE	FF	Middle Atlantic Division.....	EE	BB
Connecticut.....	EE	CC	New York.....	CC	(NA)
Middle Atlantic Division.....	FF	FF	New Jersey.....	BB	3.5
New York.....	2.0	4.0	Pennsylvania.....	AA	(NA)
New Jersey.....	FF	FF			
Pennsylvania.....	CC	(NA)	North Central Region.....	34.3	26.8
North Central Region.....	139.5	123.8	East North Central Division.....	19.5	9.7
East North Central Division.....	26.3	42.3	Illinois.....	EE	CC
Ohio.....	BB	AA	West North Central Division.....	14.8	17.1
Illinois.....	16.7	34.0	Minnesota.....	BB	(NA)
Wisconsin.....	CC	6.4	Missouri.....	EE	EE
West North Central Division.....	113.2	81.4	South Region.....	EE	11.8
Minnesota.....	FF	CC	East South Central Division.....	BB	(NA)
Iowa.....	CC	CC	Tennessee.....	BB	(NA)
Missouri.....	GG	GG	West South Central Division.....	CC	CC
Kansas.....	AA	(NA)	Arkansas.....	CC	CC
South Region.....	24.2	15.0	HEAT TRANSFER EQUIPMENT, EXCEPT ROOM AND UNITARY AIR-CONDITIONERS AND DEHUMIDIFIERS (35851)		
South Atlantic Division.....	CC	BB	United States.....	1,680.5	918.6
Maryland.....	BB	AA	Northeast Region.....	572.5	317.6
West Virginia.....	CC	(NA)	New England Division.....	13.9	12.8
East South Central Division.....	EE	EE	Massachusetts.....	9.2	7.8
Tennessee.....	EE	CC	Connecticut.....	4.7	5.1
West South Central Division.....	AA	1.2	Middle Atlantic Division.....	558.6	304.8
Arkansas.....	BB	(NA)	New York.....	GG	GG
West Region.....	11.1	5.5	New Jersey.....	FF	FF
Pacific Division.....	11.1	BB	Pennsylvania.....	58.7	79.2
California.....	11.1	BB			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the date in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HEAT TRANSFER EQUIPMENT, EXCEPT ROOM AND UNITARY AIR-CONDITIONERS AND DEHUMIDIFIERS (35851)--Con.			COMMERCIAL REFRIGERATION EQUIPMENT (35853)		
North Central Region.....	672.2	395.4	United States.....	482.3	341.5
East North Central Division.....	502.2	335.4	Northeast Region.....	126.0	104.6
Ohio.....	275.1	188.5	New England Division.....	6.7	3.4
Indiana.....	26.4	CC	Massachusetts.....	CC	3.4
Illinois.....	69.8	FF	Middle Atlantic Division.....	119.4	101.2
Michigan.....	GG	33.5	New York.....	FF	20.7
Wisconsin.....	GG	63.6	New Jersey.....	FF	34.7
West North Central Division.....	170.0	60.0	Pennsylvania.....	53.7	45.9
Minnesota.....	131.9	29.0	North Central Region.....	251.9	165.7
Iowa.....	CC	BB	East North Central Division.....	161.9	99.7
Missouri.....	8.8	15.0	Ohio.....	38.8	33.0
Kansas.....	FF	EE	Indiana.....	EE	20.6
South Region.....	365.1	148.0	Illinois.....	38.4	10.5
South Atlantic Division.....	38.6	21.2	Michigan.....	FF	22.8
Maryland.....	EE	CC	Wisconsin.....	36.0	12.7
Virginia.....	EE	3.2	West North Central Division.....	90.0	66.0
South Carolina.....	AA	(NA)	Minnesota.....	14.8	EE
Georgia.....	BB	BB	Iowa.....	BB	3.7
Florida.....	BB	AA	Missouri.....	64.6	38.1
East South Central Division.....	124.1	51.8	Kansas.....	CC	CC
Kentucky.....	52.9	EE	South Region.....	78.7	49.7
Tennessee.....	28.7	AA	South Atlantic Division.....	34.3	21.0
Alabama.....	CC	EE	Delaware.....	CC	BB
Mississippi.....	FF	FF	Maryland.....	AA	4.1
West South Central Division.....	202.4	74.9	Virginia.....	BB	(NA)
Arkansas.....	FF	BB	South Carolina.....	CC	BB
Oklahoma.....	FF	CC	Georgia.....	CC	CC
Texas.....	143.6	66.5	Florida.....	4.5	AA
West Region.....	70.7	57.5	East South Central Division.....	11.8	6.7
Mountain Division.....	CC	AA	Kentucky.....	AA	(NA)
Utah.....	BB	AA	Tennessee.....	BB	AA
Pacific Division.....	GG	GG	Alabama.....	BB	BB
Washington.....	AA	(NA)	Mississippi.....	CC	BB
California.....	63.0	GG	West South Central Division.....	32.7	22.7
UNITARY AIR-CONDITIONERS (35852) <sup>1</sup>			Arkansas.....	EE	CC
United States.....	1,070.6	(NA)	Texas.....	FF	EE
Northeast Region.....	200.8	(NA)	West Region.....	25.7	21.6
Middle Atlantic Division.....	GG	(NA)	Mountain Division.....	BB	(NA)
New York.....	120.7	(NA)	Colorado.....	AA	(NA)
New Jersey.....	FF	(NA)	Utah.....	AA	(NA)
Pennsylvania.....	GG	(NA)	Pacific Division.....	FF	FF
North Central Region.....	380.3	(NA)	Washington.....	AA	4.0
East North Central Division.....	314.1	(NA)	Oregon.....	BB	(NA)
Ohio.....	140.0	(NA)	California.....	18.5	16.4
Indiana.....	GG	(NA)	COMPRESSORS AND COMPRESSOR UNITS, ALL REFRIGERANTS (35854)		
Illinois.....	FF	(NA)	United States.....	1,065.4	494.5
Michigan.....	49.2	(NA)	Northeast Region.....	120.7	46.9
Wisconsin.....	CC	(NA)	New England Division.....	CC	CC
West North Central Division.....	66.2	(NA)	Connecticut.....	CC	CC
Minnesota.....	GG	(NA)	Middle Atlantic Division.....	GG	FF
Iowa.....	EE	(NA)	New York.....	GG	CC
Missouri.....	BB	(NA)	Pennsylvania.....	EE	FF
South Region.....	424.9	(NA)	North Central Region.....	772.8	400.5
South Atlantic Division.....	67.4	(NA)	East North Central Division.....	GG	400.5
Maryland.....	FF	(NA)	Ohio.....	485.6	195.5
Virginia.....	EE	(NA)	Indiana.....	GG	FF
North Carolina.....	AA	(NA)	Illinois.....	FF	EE
Georgia.....	CC	(NA)	Michigan.....	GG	GG
Florida.....	AA	(NA)	Wisconsin.....	22.4	CC
East South Central Division.....	188.4	(NA)	West North Central Division.....	BB	(NA)
Kentucky.....	BB	(NA)	Kansas.....	BB	(NA)
Tennessee.....	177.8	(NA)	South Region.....	157.3	39.9
Alabama.....	CC	(NA)	South Atlantic Division.....	BB	(NA)
West South Central Division.....	169.1	(NA)	Virginia.....	BB	(NA)
Oklahoma.....	FF	(NA)	East South Central Division.....	GG	FF
Texas.....	GG	(NA)	Kentucky.....	GG	FF
West Region.....	64.5	(NA)	Alabama.....	EE	EE
Mountain Division.....	EE	(NA)	West South Central Division.....	EE	BB
Arizona.....	EE	(NA)	Texas.....	EE	BB
Pacific Division.....	GG	(NA)	West Region.....	14.6	7.2
California.....	GG	(NA)	Pacific Division.....	14.6	CC
			California.....	14.6	CC

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CONDENSING UNITS, ALL REFRIGERANTS (35855)			OTHER REFRIGERATION AND AIR-CONDITIONING EQUIPMENT, INCLUDING SODA FOUNTAIN AND BEER DISPENSING EQUIPMENT (35857)--Continued		
United States.....	146.8	73.3			
Northeast Region.....	22.7	10.7	North Central Region.....	346.2	263.2
New England Division.....	CC	(NA)	East North Central Division.....	297.4	232.0
Connecticut.....	CC	(NA)	Ohio.....	EE	65.0
Middle Atlantic Division.....	EE	EE	Indiana.....	21.8	53.8
New York.....	BB	CC	Illinois.....	29.4	17.4
New Jersey.....	CC	BB	Michigan.....	GG	65.0
Pennsylvania.....	5.6	(NA)	Wisconsin.....	21.7	30.9
North Central Region.....	88.1	46.2	West North Central Division.....	48.8	31.3
East North Central Division.....	GG	FF	Minnesota.....	CC	EE
Ohio.....	51.1	EE	Missouri.....	40.8	EE
Indiana.....	BB	AA	South Region.....	77.7	109.0
Illinois.....	BB	(NA)	South Atlantic Division.....	21.4	FF
Michigan.....	20.5	FF	Maryland.....	BB	CC
West North Central Division.....	EE	CC	North Carolina.....	EE	21.1
Minnesota.....	AA	(NA)	Florida.....	BB	2.4
Missouri.....	CC	CC	East South Central Division.....	8.6	AA
South Region.....	33.9	7.9	Kentucky.....	CC	(NA)
South Atlantic Division.....	CC	BB	Tennessee.....	BB	AA
Virginia.....	AA	(NA)	West South Central Division.....	47.6	66.2
Georgia.....	BB	BB	Arkansas.....	BB	AA
East South Central Division.....	EE	AA	Texas.....	FF	63.1
Kentucky.....	EE	(NA)	West Region.....	50.3	28.6
West South Central Division.....	12.2	3.4	Mountain Division.....	FF	EE
Texas.....	EE	(NA)	Colorado.....	EE	(NA)
West Region.....	2.2	8.4	Arizona.....	FF	EE
Pacific Division.....	AA	CC	Pacific Division.....	EE	EE
California.....	AA	CC	Washington.....	AA	(NA)
ROOM AIR-CONDITIONERS AND DEHUMIDIFIERS (35856) <sup>1</sup>			California.....	11.6	14.8
United States.....	679.6	(NA)	WARM AIR FURNACES (EXCEPT FLOOR AND WALL) AND PARTS AND ATTACHMENTS (35858)		
Northeast Region.....	118.6	(NA)	United States.....	384.3	<sup>2</sup> 215.5
New England Division.....	BB	(NA)	Northeast Region.....	44.7	FF
Massachusetts.....	AA	(NA)	New England Division.....	2.1	(NA)
Middle Atlantic Division.....	GG	(NA)	Massachusetts.....	AA	(NA)
New York.....	FF	(NA)	Middle Atlantic Division.....	42.6	FF
New Jersey.....	88.3	(NA)	New York.....	11.6	8.2
Pennsylvania.....	4.7	(NA)	New Jersey.....	EE	17.9
North Central Region.....	378.9	(NA)	Pennsylvania.....	EE	BB
East North Central Division.....	GG	(NA)	North Central Region.....	240.4	139.5
Ohio.....	132.1	(NA)	East North Central Division.....	160.0	97.0
Indiana.....	GG	(NA)	Ohio.....	93.2	57.2
Illinois.....	FF	(NA)	Indiana.....	22.9	18.2
Michigan.....	71.6	(NA)	Illinois.....	EE	(NA)
West North Central Division.....	BB	(NA)	Michigan.....	FF	EE
Iowa.....	AA	(NA)	Wisconsin.....	AA	CC
Missouri.....	EE	(NA)	West North Central Division.....	80.4	42.5
Kansas.....	EE	(NA)	Minnesota.....	BB	BB
South Region.....	181.6	(NA)	Iowa.....	EE	13.8
South Atlantic Division.....	EE	(NA)	Missouri.....	FF	EE
Maryland.....	BB	(NA)	Kansas.....	FF	EE
Virginia.....	CC	(NA)	South Region.....	73.8	28.1
East South Central Division.....	141.9	(NA)	South Atlantic Division.....	EE	8.3
Kentucky.....	GG	(NA)	Virginia.....	CC	CC
Tennessee.....	FF	(NA)	South Carolina.....	CC	(NA)
West South Central Division.....	FF	(NA)	East South Central Division.....	39.4	13.7
Arkansas.....	CC	(NA)	Tennessee.....	39.4	13.7
Louisiana.....	AA	(NA)	West South Central Division.....	EE	6.1
Texas.....	EE	(NA)	Arkansas.....	EE	(NA)
OTHER REFRIGERATION AND AIR-CONDITIONING EQUIPMENT, INCLUDING SODA FOUNTAIN AND BEER DISPENSING EQUIPMENT (35857)			Texas.....	BB	BB
United States.....	570.3	484.9	West Region.....	25.4	EE
Northeast Region.....	96.0	84.1	Mountain Division.....	BB	(NA)
New England Division.....	21.4	22.0	Utah.....	BB	(NA)
Massachusetts.....	CC	AA	Pacific Division.....	FF	EE
Connecticut.....	EE	FF	California.....	FF	17.6
Middle Atlantic Division.....	74.6	62.1			
New York.....	16.6	25.7			
New Jersey.....	34.7	9.8			
Pennsylvania.....	23.3	26.5			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COMMERCIAL COOKING AND FOOD WARMING EQUIPMENT (35891)			SERVICE INDUSTRY MACHINES AND PARTS (35892)—Con.		
United States.....	217.0	158.2	West Region.....	81.2	31.3
Northeast Region.....	46.8	37.3	Mountain Division.....	22.8	4.3
New England Division.....	19.9	14.2	Colorado.....	BB	BB
New Hampshire.....	BB	AA	Utah.....	EE	(NA)
Vermont.....	CC	BB	Nevada.....	AA	(NA)
Massachusetts.....	CC	CC	Pacific Division.....	58.4	27.0
Middle Atlantic Division.....	26.9	23.0	Oregon.....	CC	CC
New York.....	11.4	10.4	California.....	FF	EE
New Jersey.....	9.1	8.6	COMMERCIAL AND INDUSTRIAL VACUUM CLEANERS, INCLUDING PARTS AND ATTACHMENTS (35893)		
Pennsylvania.....	6.5	4.0	United States.....	62.7	26.0
North Central Region.....	102.2	72.7	Northeast Region.....	22.6	CC
East North Central Division.....	80.9	58.1	New England Division.....	7.6	6.1
Ohio.....	6.6	CC	Massachusetts.....	BB	BB
Indiana.....	EE	BB	Connecticut.....	BB	BB
Illinois.....	48.4	36.5	Middle Atlantic Division.....	15.0	AA
Michigan.....	CC	CC	New York.....	AA	(NA)
Wisconsin.....	2.5	(NA)	New Jersey.....	AA	AA
West North Central Division.....	21.3	14.5	Pennsylvania.....	EE	(NA)
Minnesota.....	EE	CC	North Central Region.....	29.4	14.7
Missouri.....	CC	CC	East North Central Division.....	FF	CC
South Region.....	38.9	18.8	Ohio.....	5.1	2.8
South Atlantic Division.....	17.7	11.0	Illinois.....	6.1	BB
Maryland.....	EE	CC	Michigan.....	EE	BB
South Carolina.....	BB	AA	West North Central Division.....	CC	BB
Georgia.....	AA	2.1	Minnesota.....	CC	BB
Florida.....	2.4	(NA)	South Region.....	8.6	BB
East South Central Division.....	7.0	BB	South Atlantic Division.....	CC	BB
Kentucky.....	CC	BB	Maryland.....	AA	AA
West South Central Division.....	14.2	CC	North Carolina.....	BB	(NA)
Louisiana.....	BB	BB	Florida.....	BB	(NA)
Oklahoma.....	AA	(NA)	West Region.....	2.1	(NA)
Texas.....	CC	BB	Pacific Division.....	AA	(NA)
West Region.....	29.2	29.4	California.....	AA	(NA)
Mountain Division.....	1.7	2.0	CARBURETORS, NEW AND REBUILT (35921) <sup>1</sup>		
Pacific Division.....	27.4	27.4	United States.....	353.3	(NA)
California.....	FF	FF	Northeast Region.....	GG	(NA)
SERVICE INDUSTRY MACHINES AND PARTS (35892)			Middle Atlantic Division.....	GG	(NA)
United States.....	496.5	305.3	New York.....	GG	(NA)
Northeast Region.....	84.2	56.9	Pennsylvania.....	CC	(NA)
New England Division.....	9.7	7.5	North Central Region.....	145.7	(NA)
Massachusetts.....	CC	5.5	East North Central Division.....	GG	(NA)
Connecticut.....	BB	AA	Ohio.....	EE	(NA)
Middle Atlantic Division.....	74.5	49.4	Illinois.....	CC	(NA)
New York.....	14.7	10.4	Michigan.....	GG	(NA)
New Jersey.....	23.9	7.3	West North Central Division.....	FF	(NA)
Pennsylvania.....	35.9	31.7	Missouri.....	FF	(NA)
North Central Region.....	266.5	183.8	South Region.....	GG	(NA)
East North Central Division.....	202.8	144.9	South Atlantic Division.....	BB	(NA)
Ohio.....	48.2	43.7	North Carolina.....	BB	(NA)
Indiana.....	5.9	5.3	East South Central Division.....	GG	(NA)
Illinois.....	86.8	62.2	Kentucky.....	FF	(NA)
Michigan.....	26.4	12.2	Tennessee.....	FF	(NA)
Wisconsin.....	35.5	21.4	West South Central Division.....	BB	(NA)
West North Central Division.....	63.7	39.0	Arkansas.....	BB	(NA)
Minnesota.....	50.2	31.3	West Region.....	7.8	(NA)
Iowa.....	3.7	2.6	Pacific Division.....	CC	(NA)
Missouri.....	3.5	AA	California.....	CC	(NA)
Kansas.....	CC	BB	PISTONS AND PISTON RINGS (35922) <sup>1</sup>		
South Region.....	64.6	33.2	United States.....	229.2	(NA)
South Atlantic Division.....	22.0	13.1	Northeast Region.....	CC	(NA)
Maryland.....	3.3	(NA)	Middle Atlantic Division.....	CC	(NA)
Virginia.....	BB	(NA)	New York.....	AA	(NA)
North Carolina.....	CC	BB	Pennsylvania.....	CC	(NA)
Georgia.....	1.4	BB			
Florida.....	9.2	CC			
East South Central Division.....	16.9	4.8			
Kentucky.....	CC	4.8			
Tennessee.....	2.3	(NA)			
Alabama.....	CC	(NA)			
West South Central Division.....	25.8	15.3			
Arkansas.....	BB	CC			
Texas.....	FF	CC			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PISTONS AND PISTON RINGS (35922)--Continued			MISCELLANEOUS MACHINERY PRODUCTS, INCLUDING FLEXIBLE METAL HOSE AND TUBING, METAL BELLOWS, ETC. (35994) <sup>1</sup>		
North Central Region.....	172.9	(NA)	United States.....	442.5	(NA)
East North Central Division.....	GG	(NA)	Northeast Region.....	97.5	(NA)
Ohio.....	AA	(NA)	New England Division.....	35.5	(NA)
Indiana.....	GG	(NA)	Massachusetts.....	11.0	(NA)
Michigan.....	52.7	(NA)	Rhode Island.....	2.1	(NA)
Wisconsin.....	2.5	(NA)	Connecticut.....	21.3	(NA)
West North Central Division.....	FF	(NA)	Middle Atlantic Division.....	61.9	(NA)
Minnesota.....	CC	(NA)	New York.....	21.7	(NA)
Missouri.....	FF	(NA)	New Jersey.....	14.1	(NA)
South Region.....	FF	(NA)	Pennsylvania.....	26.2	(NA)
South Atlantic Division.....	EE	(NA)	North Central Region.....	215.8	(NA)
Maryland.....	EE	(NA)	East North Central Division.....	189.4	(NA)
East South Central Division.....	CC	(NA)	Ohio.....	41.4	(NA)
Kentucky.....	BB	(NA)	Indiana.....	9.3	(NA)
Mississippi.....	AA	(NA)	Illinois.....	58.0	(NA)
West South Central Division.....	BB	(NA)	Michigan.....	63.1	(NA)
Texas.....	BB	(NA)	Wisconsin.....	17.6	(NA)
West Region.....	19.8	(NA)	West North Central Division.....	26.5	(NA)
Mountain Division.....	CC	(NA)	Minnesota.....	9.8	(NA)
Colorado.....	CC	(NA)	Iowa.....	BB	(NA)
Pacific Division.....	EE	(NA)	Missouri.....	5.2	(NA)
California.....	EE	(NA)	Kansas.....	7.1	(NA)
VALVES (INTAKE AND EXHAUST) (35923) <sup>1</sup>			South Region.....	54.0	(NA)
United States.....	196.6	(NA)	South Atlantic Division.....	17.0	(NA)
Northeast Region.....	EE	(NA)	Maryland.....	6.5	(NA)
Middle Atlantic Division.....	EE	(NA)	North Carolina.....	5.1	(NA)
New York.....	BB	(NA)	Georgia.....	1.1	(NA)
New Jersey.....	EE	(NA)	Florida.....	2.2	(NA)
North Central Region.....	177.7	(NA)	East South Central Division.....	19.4	(NA)
East North Central Division.....	GG	(NA)	Tennessee.....	8.8	(NA)
Ohio.....	GG	(NA)	Alabama.....	4.2	(NA)
Indiana.....	BB	(NA)	Mississippi.....	2.4	(NA)
Michigan.....	GG	(NA)	West South Central Division.....	17.7	(NA)
West North Central Division.....	EE	(NA)	Louisiana.....	AA	(NA)
Nebraska.....	EE	(NA)	Oklahoma.....	1.8	(NA)
South Region.....	4.5	(NA)	Texas.....	14.7	(NA)
West South Central Division.....	BB	(NA)	West Region.....	75.2	(NA)
Texas.....	2.9	(NA)	Mountain Division.....	4.3	(NA)
PNEUMATIC AND HYDRAULIC CYLINDERS (35992) <sup>1</sup>			Arizona.....	2.5	(NA)
United States.....	189.2	(NA)	Pacific Division.....	71.0	(NA)
Northeast Region.....	17.2	(NA)	Washington.....	19.4	(NA)
New England Division.....	AA	(NA)	Oregon.....	10.7	(NA)
Massachusetts.....	AA	(NA)	California.....	40.8	(NA)
Middle Atlantic Division.....	EE	(NA)	RECEIPTS FOR MACHINE SHOP JOBWORK (35995)		
New York.....	13.1	(NA)	United States.....	1,425.8	1,080.0
New Jersey.....	AA	(NA)	Northeast Region.....	384.2	326.7
Pennsylvania.....	AA	(NA)	New England Division.....	115.6	111.5
North Central Region.....	140.3	(NA)	Maine.....	1.7	AA
East North Central Division.....	99.7	(NA)	New Hampshire.....	3.9	3.8
Ohio.....	28.0	(NA)	Vermont.....	1.7	AA
Indiana.....	11.8	(NA)	Massachusetts.....	55.9	46.9
Illinois.....	24.8	(NA)	Rhode Island.....	5.5	6.3
Michigan.....	31.1	(NA)	Connecticut.....	47.0	52.5
Wisconsin.....	3.9	(NA)	Middle Atlantic Division.....	268.6	215.2
West North Central Division.....	40.6	(NA)	New York.....	91.2	80.6
Minnesota.....	BB	(NA)	New Jersey.....	64.4	40.6
Iowa.....	16.2	(NA)	Pennsylvania.....	113.0	94.0
Nebraska.....	4.4	(NA)	North Central Region.....	517.2	362.8
Kansas.....	EE	(NA)	East North Central Division.....	422.5	283.4
South Region.....	16.9	(NA)	Ohio.....	130.2	92.0
South Atlantic Division.....	AA	(NA)	Indiana.....	44.2	25.8
Georgia.....	AA	(NA)	Illinois.....	107.4	79.4
East South Central Division.....	CC	(NA)	Michigan.....	89.7	61.4
Kentucky.....	BB	(NA)	Wisconsin.....	50.9	24.8
Alabama.....	AA	(NA)	West North Central Division.....	94.7	79.4
West South Central Division.....	EE	(NA)	Minnesota.....	49.7	42.1
Louisiana.....	CC	(NA)	Iowa.....	5.9	3.2
Texas.....	BB	(NA)	Missouri.....	25.3	21.7
West Region.....	14.6	(NA)	Nebraska.....	AA	1.0
Pacific Division.....	EE	(NA)	Kansas.....	12.1	10.8
Oregon.....	BB	(NA)			
California.....	11.1	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
RECEIPTS FOR MACHINE SHOP JOBWORK (35995)--Con.			RECEIPTS FOR MACHINE SHOP JOBWORK (35995)--Con.		
South Region.....	253.4	136.8	South Region--Continued		
South Atlantic Division.....	99.8	57.8	West South Central Division--Continued		
Delaware.....	BB	AA	Oklahoma.....	16.6	6.1
Maryland.....	16.8	-	Texas.....	82.8	41.3
Virginia.....	11.1	12.2			
West Virginia.....	9.2	6.6	West Region.....	271.1	253.6
North Carolina.....	20.3	6.6	Mountain Division.....	43.5	23.0
South Carolina.....	8.5	2.0	Montana.....	AA	6.2
Georgia.....	8.0	5.3	Wyoming.....	3.3	-
Florida.....	22.9	10.0	Colorado.....	9.4	-
East South Central Division.....	33.8	20.3	New Mexico.....	4.0	2.8
Kentucky.....	4.7	3.5	Arizona.....	20.0	9.7
Tennessee.....	16.5	8.9	Utah.....	4.9	3.1
Alabama.....	7.4	6.0			
Mississippi.....	5.2	1.9	Pacific Division.....	227.6	230.7
West South Central Division.....	119.6	58.7	Washington.....	26.7	26.6
Arkansas.....	3.3	1.8	Oregon.....	17.7	8.1
Louisiana.....	17.1	9.4	California.....	181.1	194.9
			Alaska.....	AA	-

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

- Represents. (NA) Not available.

<sup>1</sup>The individual product codes included in this class of product for 1972 differ significantly from prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments at the U.S. level.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ from the 1967 definition. Products shifting into or out of this class of product represent approximately 5 percent of the total 1967 shipments at the U.S. level. The difference in product class 35858 for 1967 between table 6B and tables 6A and 6C represents parts for warm air furnaces.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3581	Automatic merchandising machines.....	306.3	308.5	265.8	290.4	288.2	261.2	206.6	130.8
35811	Automatic merchandising machines.....	231.5	233.1	190.8	215.5	225.6	198.3	164.3	110.5
35812	Coin-operated mechanisms and parts for merchandising machines.	61.1	59.8	60.9	64.5	50.9	45.5	32.8	20.3
35810	Automatic merchandise machines, n.s.k.....	13.7	(15.6)	(14.1)	10.4	11.7	17.4	9.5	
35820	Commercial laundry equipment.....	185.3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
3585	Refrigeration and heating equipment.....	6,232.1	5,493.6	5,053.6	4,929.0	4,130.0	3,695.4	2,326.7	1,679.4
35851	Heat transfers equipment (except room and unitary air-conditioners).....	1,680.5	3,049.0	2,802.2	2,764.7	2,297.0	903.2	530.1	1,158.8
35852	Air-conditioners, unitary.....	1,070.6							
35856	Room air-conditioners and dehumidifiers.....	679.6	461.8	429.7	413.5	375.3	341.5	253.7	240.4
35853	Commercial refrigeration equipment.....	482.3							
35854	Compressors and compressor units, all refrigerants.....	1,065.4	905.8	826.7	730.4	563.7	494.5	269.4	181.8
35855	Condensing units, all refrigerants.....	146.8	97.2	98.9	96.4	82.4	73.3	73.5	70.3
35857	Other refrigeration equipment, including soda and beer dispensing equipment.....	570.3	561.5	516.5	589.7	511.9	484.9	302.5	195.2
35858	Warm air furnaces (except floor and wall) and parts.....	384.2	<sup>3</sup> 328.1	<sup>3</sup> 299.3	<sup>3</sup> 277.8	<sup>3</sup> 248.2	226.4	222.1	244.4
35850	Refrigeration and heating equipment, n.s.k.....	152.4	90.2	80.3	56.5	51.5	88.2	46.7	31.4
35860	Measuring and dispensing pumps.....	183.4	159.0	171.8	160.5	155.1	139.3	121.0	88.2
3589	Service industry machinery, n.e.c.....	864.4	731.8	667.2	712.4	619.4	539.8	341.5	222.0
35891	Commercial cooking and food warming equipment.....	217.0	204.2	200.5	263.1	219.2	158.2	<sup>4</sup> 107.0	73.2
35892	Service industry machines and parts.....	496.5	481.4	419.1	368.9	319.0	305.3	196.7	136.1
35893	Commercial and industrial vacuum cleaners, parts, and attachments.....	62.7	28.7	28.3	34.0	29.7	26.0	19.0	12.7
35890	Service industry machinery, n.e.c., n.s.k.....	88.2	(17.5)	(19.3)	46.4	51.5	50.3	18.9	-
3592	Carburetors, pistons, rings, and valves.....	791.9	<sup>4</sup> 654.0	<sup>4</sup> 530.3	<sup>4</sup> 633.4	<sup>4</sup> 579.9	512.7	386.1	200.8
35921	Carburetors, new and rebuilt.....	353.3	<sup>4</sup> 654.0	<sup>4</sup> 530.3	<sup>4</sup> 633.4	<sup>4</sup> 579.9	189.9	<sup>4</sup> 121.4	<sup>4</sup> 48.2
35922	Pistons and piston rings.....	229.3							
35923	Valves, intake and exhaust.....	196.6	<sup>4</sup> 654.0	<sup>4</sup> 530.3	<sup>4</sup> 633.4	<sup>4</sup> 579.9	107.8	86.1	41.3
35920	Carburetors, pistons, rings, and valves, n.s.k.....	12.7							
3599	Machinery, except electrical, n.e.c.....	3,363.3	2,741.2	2,931.8	2,716.9	2,693.7	2,753.0	1,283.6	904.3
35992	Pneumatic and hydraulic cylinders.....	189.2	<sup>6</sup> 7706.4	<sup>6</sup> 7751.0	<sup>6</sup> 7798.8	<sup>6</sup> 745.7	127.5	86.8	<sup>6</sup> 637.5
35994	Miscellaneous machinery products.....	442.5							
35995	Receipts for machine shop jobwork.....	1,425.8	1,582.4	1,619.4	1,302.6	(1,243.8)	1,080.0	<sup>6</sup> 782.8	<sup>6</sup> 637.5
35990	Machinery, except electrical, n.e.c., n.s.k.....	1,305.8	452.4	561.4	615.5	704.2	843.2	<sup>5</sup> 414.0	

- Represents zero.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ significantly from prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments value at the U.S. level.

<sup>3</sup>Excludes parts for warm air furnaces.

<sup>4</sup>Excludes rebuilt carburetors, which were previously classified in industry 3599.

<sup>5</sup>Included with 35990, "Machinery, except electrical, n.e.c., n.s.k."

<sup>6</sup>Includes rebuilt carburetors.

<sup>7</sup>Includes metallic and semimetallic packing (except asbestos-metallic).



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3581.--AUTOMATIC MERCHANDISING MACHINES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 138.7	(X)	112.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	65.2	15.6	(NA)	.2
331012	Sheet and strip.....	..do.....			70.0	12.8
331013	Plates.....	..do.....			(NA)	.3
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
331020	Alloy steel (except stainless).....	..do.....	2.8	4.4	.9	.6
331031	Stainless steel mill shapes and forms.....	..do.....			.8	.9
335105	Copper and copper-base alloy mill shapes and forms.....	Million lb....	.4	.4	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.8	.5	2.7	1.7
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	1.4		
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	.8	.3	(NA)	.9
336100	Aluminum and aluminum-base alloy.....	Million lb....	.5	.4	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	(Z)	(Z)
	Electric motors and generators: <sup>2</sup>					
362110	Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous.....	1,000 units...	459.1	1.5	921.8	4.7
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	(NA)	4.7	(NA)	1.6
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(D)	(D)	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	92.9	(X)	<sup>1</sup> 78.4
976000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....		(X)	15.4	(X)	10.6
	INDUSTRY 3582.--COMMERCIAL LAUNDRY EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 59.3	(X)	75.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	1.3	5.8	1.2
331012	Sheet and strip.....	..do.....	11.3	2.5	17.6	3.0
331013	Plates.....	..do.....	4.5	1.1	8.9	1.6
331015	Structural shapes.....	..do.....	5.4	1.2	(NA)	.3
331017	Wire and wire products.....	..do.....	(NA)	.6	3.0	.8
331019	All other carbon steel mill shapes and forms.....	..do.....				
331020	Alloy steel.....	..do.....	2.3	3.1	.8	.3
331033	Stainless steel:				3.2	4.0
331050	Sheet and strip.....	..do.....				
335105	All other.....	..do.....				
335105	Copper and copper-base alloy mill shapes and forms.....	Million lb....	(NA)	.5	(NA)	.3
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.2	.1	(NA)	.4
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	.2	(NA)	.2
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	3.9	2.2	12.2	5.7
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.3	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	.4	.3
	Electric motors and generators: <sup>2</sup>					
362110	Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	1.1	(NA)	.9
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	88.6	2.2	79.1	2.1
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	24.2	2.1	25.2	3.5
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	29.2	(X)	<sup>1</sup> 45.0
976000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....		(X)	11.1	(X)	6.3

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3585.--REFRIGERATION AND HEATING EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 3,448.1	(X)	<sup>1</sup> 1,532.5
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	41.2	12.9	80.3	18.4
331012	Sheet and strip.....	..do.....	1,059.4	235.8	457.5	81.1
331013	Plates.....	..do.....	43.0	9.5	39.9	6.4
331015	Structural shapes.....	..do.....	15.7	4.3	26.8	4.9
331017	Wire and wire products.....	..do.....	24.9	8.6	7.5	1.8
331019	All other carbon steel mill shapes and forms.....	..do.....	83.7	26.0	26.0	7.0
331020	Alloy steel, except stainless.....	..do.....	53.7	13.4	8.3	1.8
	Stainless steel:					
331033	Sheet and strip.....	..do.....	28.9	33.8	15.7	18.4
331050	All other stainless steel mill shapes and forms.....	..do.....	9.4	10.3		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	1.5	1.9	4.3	3.2
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	8.2	7.5	4.2	3.2
335102	Rod, bar, and mechanical wire including extruded and/or drawn shapes.....	Million lb....	16.2	9.6	45.2	24.7
335143	Plate, sheet, and strip (including military cups and discs)...	..do.....	145.3	91.0		
335152	Pipe and tube.....	..do.....	127.5	122.3	127.9	105.0
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	218.1	82.2	127.6	48.1
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)..	..do.....	36.3	25.4	10.0	6.7
335008	All other aluminum mill shapes and forms, (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	30.2	14.7	14.5	6.9
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	237.4	100.8	132.2	50.0
332045	Steel.....	..do.....	(NA)	5.7	12.6	7.4
336100	Aluminum and aluminum-base alloy.....	Million lb....	30.8	33.3	24.8	12.0
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	2.4	2.0
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
999811	Iron and steel scrap (excluding home scrap).....	..do.....	(D)	(D)	(NA)	(NA)
358501	Compressors, compressor units, condensing units, fin coils, and other heat-transfer equipment.....		(X)	364.9	(NA)	(NA)
339915	Metal powders.....	Million lb....	(D)	(D)	(NA)	(NA)
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	24.9	14.0	(NA)	(NA)
	Electric motors and generators: <sup>2</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(NA)	27.9
362115	Fractional horsepower electric motors (including timing motors).....	Million units.	22.7	184.7	9,979.0	104.2
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	(NA)	159.8	4,240.0	107.9
	Bearings:					
356218	Ball.....	..do.....	(X)	22.9	(X)	5.7
356201	Roller.....	..do.....	(X)	5.8	(X)	.2
260091	Paper and paperboard containers.....	..do.....	(X)	48.0	(X)	17.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	1,510.3	(X)	<sup>1</sup> 729.5
976000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....		(X)	200.2	(X)	130.3
	INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 90.9	(X)	66.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	13.0	2.3	21.7	3.6
331011	Bars and bar shapes.....	..do.....	9.5	2.6		
331013	Plates.....	..do.....	(D)	(D)		
331015	Structural shapes.....	..do.....	(D)	(D)		
331019	All other carbon steel mill shapes and forms.....	..do.....	(D)	(D)		
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	(D)	(D)	1.3	1.7
331029	All other alloy steel.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	23.2	1.4		
331050	All other stainless steel mill shapes and forms.....	..do.....	.5	.6		
	Copper and copper-base alloy:					
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.1	.1	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(D)	(D)	1.8	1.1
335143	Plate, sheet, and strip, including military cups and discs....	..do.....				
335152	Pipe and tube.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms, except castings--Continued					
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	(Z)	(Z)	(Z)	(Z)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc...	...do.....	.4	.4	(NA)	(NA)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(Z)	(Z)		
999811	Iron and steel scrap (excluding home scrap).....	1,000 s. tons.	(Z)	(Z)	(Z)	(Z)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	...do.....	14.0	3.8	12.0	3.7
332045	Steel.....	...do.....	.1	.2	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	3.0	2.6	(NA)	1.3
336200	Copper and copper-base alloy.....	...do.....	.1	.2	(D)	(D)
346200	Iron and steel forgings <sup>2</sup> .....	.....	(D)	(D)	(D)	(D)
351901	Gasoline and other carburetor engines.....	1,000 units...	(D)	(D)	(D)	(D)
	Electric motors and generators: <sup>2</sup>					
362115	Fractional horsepower electric motor (under 1 hp.) (excluding timing motors).....	...do.....	143.9	4.2	148.5	3.5
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	6.3	1.3	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(X)	.5	(X)	(D)
356201	Roller.....	.....				
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	60.4	(X)	<sup>1</sup> 41.3
972000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....	.....	(X)	4.7	(X)	5.4
	INDUSTRY 3589.--SERVICE INDUSTRY MACHINERY, N.E.C.					
	Materials, parts, containers and supplies, total.....	.....	(X)	370.1	(X)	243.4
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	14.2	4.0	10.0	2.9
331012	Sheet and strip.....	...do.....	72.3	14.6	35.6	7.3
331013	Plates.....	...do.....	18.6	4.8	31.0	7.0
331015	Structural shapes.....	...do.....	(NA)	2.1	18.5	4.6
331017	Wire and wire products.....	...do.....	5.1	2.4		
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	2.9		
331020	Alloy steel (except stainless).....	...do.....	9.0	6.0	14.8	14.8
331031	Stainless steel mill shapes and forms.....	...do.....	(NA)	17.5		
335105	Copper and copper-base alloy mill shapes and forms.....	Million lb....	(NA)	1.8	1.6	1.3
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	(NA)	2.2	(NA)	2.8
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, extruded shapes, etc.).....	...do.....	(NA)	4.3	(NA)	.8
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	23.2	10.6	11.0	5.8
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.3	3.6	6.3	4.7
336200	Copper and copper-base alloy.....	...do.....	(NA)	2.4	1.9	1.7
	Electric motors and generators: <sup>2</sup>					
362110	Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	6.2	108.2	2.7
362115	Other fractional horsepower electric motors (excluding timing motors).....	...do.....	418.3	8.3	336.2	5.0
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	136.6	11.7	52.7	4.7
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	206.8	(X)	128.5
976000	Materials, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	57.9	(X)	48.8
	INDUSTRY 3592.--CARBURETORS, PISTONS, RINGS, VALVES					
	Materials, parts, containers, and supplies, total.....	.....	(X)	244.6	<sup>5</sup> (NA)	<sup>5</sup> (NA)
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	15.3	5.6	<sup>5</sup> (NA)	<sup>5</sup> (NA)
331012	Sheet and strip.....	...do.....	54.6	11.9	<sup>5</sup> (NA)	<sup>5</sup> (NA)
331013	Plates.....	...do.....	4.2	1.7	<sup>5</sup> (NA)	<sup>5</sup> (NA)
331015	Structural shapes.....	...do.....				
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3592.--CARBURETORS, PISTONS, RINGS, VALVES--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms, except castings--Continued					
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	1,000 s. tons.	12.4	12.3	<sup>5</sup> (NA)	<sup>5</sup> (NA)
331029	All other alloy steel mill shapes and forms.....	..do.....	3.8	2.6	<sup>5</sup> (NA)	<sup>5</sup> (NA)
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.4	2.7	<sup>5</sup> (NA)	<sup>5</sup> (NA)
331050	All other stainless steel mill shapes and forms.....	..do.....	.9	2.1	<sup>5</sup> (NA)	<sup>5</sup> (NA)
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	-	-	<sup>5</sup> (NA)	<sup>5</sup> (NA)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	-	-	<sup>5</sup> (NA)	<sup>5</sup> (NA)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.5	1.6	<sup>5</sup> (NA)	<sup>5</sup> (NA)
335143	Plate, sheet, and strip (including military cups and discs)...	..do.....				
335152	Pipe and tube.....	..do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	( <sup>6</sup> )	( <sup>6</sup> )	<sup>5</sup> (NA)	<sup>5</sup> (NA)
335405	Extruded shapes, including rod, bar, pipe, tube, etc.....	..do.....	1.5	1.2	<sup>5</sup> (NA)	<sup>5</sup> (NA)
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	<sup>6</sup> 25.4	<sup>6</sup> 11.0	<sup>5</sup> (NA)	<sup>5</sup> (NA)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	34.0	25.7	<sup>5</sup> (NA)	<sup>5</sup> (NA)
332045	Steel.....	..do.....	.5	.7	<sup>5</sup> (NA)	<sup>5</sup> (NA)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	8.9	<sup>5</sup> (NA)	<sup>5</sup> (NA)
336200	Copper and copper-base alloy.....	..do.....	(NA)	1.5	<sup>5</sup> (NA)	<sup>5</sup> (NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	147.6	<sup>5</sup> (NA)	<sup>5</sup> (NA)
976000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....		(X)	7.5	<sup>5</sup> (NA)	<sup>5</sup> (NA)
	INDUSTRY 3599.--MACHINERY, EXCEPT ELECTRICAL, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 928.6	(X)	921.7
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	190.2	58.0	163.3	44.8
331012	Sheet and strip.....	..do.....	87.9	21.8	86.1	17.0
331013	Plates.....	..do.....	84.4	23.2	58.3	11.6
331015	Structural shapes.....	..do.....	48.2	11.9	42.5	7.6
331017	Wire and wire products.....	..do.....	9.6	3.2	13.1	4.7
331019	All other carbon steel mill shapes and forms.....	..do.....	54.1	22.7	22.7	8.8
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	27.6	16.7	29.2	18.5
331029	All other alloy steel mill shapes and forms.....	..do.....	11.3	6.9	10.1	5.7
	Stainless steel:					
331033	Sheet and strip.....	..do.....	5.3	11.6	21.4	32.3
331050	All other stainless steel mill shapes and forms.....	..do.....	11.9	21.8		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	(D)	(D)	(D)	(D)
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	10.4	7.9	13.4	9.4
335143	Plate, sheet, and strip (including military cups and discs)...	..do.....	1.6	1.8	6.0	4.5
335152	Pipe and tube.....	..do.....	5.1	5.1	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	(NA)	8.0	12.4	11.5
335405	Extruded shapes, including rod, bar, pipe, tube, etc.....	..do.....	(NA)	8.1	14.1	9.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	5.2	5.1	20.5	8.5
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	42.8	24.6	75.2	35.8
332045	Steel.....	..do.....	19.5	16.6	24.5	19.9
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	10.0	44.7	29.3
336200	Copper and copper-base alloy.....	..do.....	(NA)	2.8	(NA)	6.2
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	175.7	(X)	<sup>1</sup> 300.2
976000	Materials, containers, supplies, n.s.k. <sup>3</sup> .....		(X)	465.0	(X)	336.1

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>Excludes quantities produced and consumed in the same establishment.<sup>3</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>4</sup>Includes extensive duplication because the products of some establishments are consumed as materials by other establishments in the same industry.<sup>5</sup>1967 materials consumed data are included with industry 3599.<sup>6</sup>1972 data for aluminum sheet, plate, and foil are included with all other aluminum mill shapes and forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost  (million dollars)
	INDUSTRY 3581.--AUTOMATIC MERCHANDISING MACHINES			
	Purchased fuels and electric energy.....		(X)	2.2
	Purchased fuels, total.....		(X)	.9
121005	Coal.....	1,000 s. tons....	2.8	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	6.9	(Z)
291141	Distillate.....	...do.....	6.9	(Z)
291151	Residual.....	...do.....	-	-
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.7	.4
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.4
960012	Purchased electric energy.....	Million kWh.....	82.5	1.3
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.6	-
	INDUSTRY 3582.--COMMERCIAL LAUNDRY EQUIPMENT			
	Purchased fuels and electric energy.....		(X)	1.2
	Purchased fuels, total.....		(X)	.5
121005	Coal.....	1,000 s. tons....	(Z)	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	7.6	(Z)
291141	Distillate.....	...do.....	2.5	(Z)
291151	Residual.....	...do.....	5.0	(Z)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.5	.2
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.3
960012	Purchased electric energy.....	Million kWh.....	40.6	.7
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.3	-
	INDUSTRY 3585.--REFRIGERATION AND HEATING EQUIPMENT			
	Purchased fuels and electric energy.....		(X)	36.3
	Purchased fuels, total.....		(X)	14.5
121005	Coal.....	1,000 s. tons....	224.5	2.6
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	356.9	1.7
291141	Distillate.....	...do.....	65.1	.3
291151	Residual.....	...do.....	291.8	1.4
131300	Natural gas.....	Billion ft <sup>3</sup> .....	13.4	7.7
960011	Other fuels.....		(X)	1.0
975000	Fuels, n.s.k.....		(X)	1.5
960012	Purchased electric energy.....	Million kWh.....	1,830.0	21.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	9.2	-
	INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS			
	Purchased fuels and electric energy.....		(X)	1.2
	Purchased fuels, total.....		(X)	.4
121005	Coal.....	1,000 s. tons....	-	-
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	6.6	(Z)
291141	Distillate.....	...do.....	6.6	(Z)
291151	Residual.....	...do.....	-	-
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.3	.2
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.2
960012	Purchased electric energy.....	Million kWh.....	54.8	.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.3	-

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost (million dollars)
	INDUSTRY 3589.--SERVICE INDUSTRY MACHINERY, N.E.C.			
	Purchased fuels and electric energy.....		(X)	5.3
	Purchased fuels, total.....		(X)	2.5
121005	Coal.....	1,000 s. tons.....	5.4	.1
331212	Coke.....	..do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	78.9	.3
291141	Distillate.....	..do.....	32.6	.2
291151	Residual.....	..do.....	46.3	.2
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.8	1.5
960011	Other fuels.....		(X)	.1
975000	Fuels, n.s.k.....		(X)	.4
960012	Purchased electric energy.....	Million kWh.....	175.2	2.8
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-
	INDUSTRY 3599.--MACHINERY, EXCEPT ELECTRICAL, N.E.C.			
	Purchased fuels and electric energy.....		(X)	45.9
	Purchased fuels, total.....		(X)	15.7
121005	Coal.....	1,000 s. tons.....	25.1	.3
331212	Coke.....	..do.....	(S)	.2
	Fuel oil, total.....	1,000 bbl (42 gal)	274.1	1.2
291141	Distillate.....	..do.....	178.0	.8
291151	Residual.....	..do.....	96.1	.4
131300	Natural gas.....	Billion ft <sup>3</sup> .....	8.9	5.1
960011	Other fuels.....		(X)	1.0
975000	Fuels, n.s.k.....		(X)	7.9
960012	Purchased electric energy.....	Million kWh.....	2,409.6	30.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	9.9	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.



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## MAJOR GROUP 36

### Electric and Electronic Equipment

- 36A Electrical measurement and distribution equipment
- 36B Household appliances
- 36C Electric lighting and wiring equipment
- 36D Communication equipment, including radio and TV, and electronic components and accessories
- 36E Miscellaneous electrical equipment and supplies

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in Major Group 35. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities are classified in industry 3825.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees <sup>1</sup>		Production workers			Value added by manufacture <sup>2</sup>	Cost of materials <sup>3</sup>	Value of industry shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
All manufacturing establishments, total: <sup>5</sup>											
1972.....	12,875	6,102	1,800.1	17,189.9	1,160.0	2,273.3	8,816.4	30,558.2	23,301.3	53,394.3	1,417.5
1967.....	11,092	5,823	1,980.6	14,106.5	1,323.8	2,611.3	7,607.0	24,487.3	19,437.3	43,361.0	1,537.2 <sup>6</sup>
1963.....	10,365	4,996	1,612.2	10,207.1	1,049.4	2,090.5	5,405.8	17,010.7	12,942.6	29,840.2	701.9
1958.....	8,476	3,995	1,218.6	6,323.4	810.2	1,592.0	3,519.7	10,471.5	(NA)	19,289.4	459.7
1954 <sup>6</sup> .....	(NA)	(NA)	1,004.5	4,229.3	722.4	1,422.3	2,645.6	7,299.6	(NA)	(NA)	340.7
Administrative and auxiliary units:											
1972 <sup>7</sup> .....	605	370	138.8	2,000.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 <sup>7</sup> .....	386	251	105.7	1,138.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 <sup>7</sup> .....	417	274	100.4	922.9	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 <sup>7</sup> .....	390	198	77.8	568.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 <sup>7</sup> .....	(NA)	(NA)	45.4	278.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972 <sup>8</sup> .....	12,270	5,732	1,661.3	15,189.0	1,160.0	2,273.3	8,816.4	30,558.2	23,301.3	53,394.3	1,417.5
1967 <sup>8</sup> .....	10,706	5,572	1,874.9	12,968.0	1,323.8	2,611.3	7,607.0	24,487.3	19,437.3	43,361.0	1,537.2
1963 <sup>8</sup> .....	9,948	4,722	1,511.8	9,284.3	1,049.4	2,090.5	5,405.8	17,010.7	12,942.6	29,840.2	701.9
1958 <sup>8</sup> .....	8,086	3,797	1,140.8	5,755.2	817.0	1,605.8	3,557.6	10,624.3	(NA)	19,547.6	468.0
1954 <sup>8</sup> .....	5,758	2,837	959.1	3,951.0	722.4	1,422.3	2,645.6	7,299.6	(NA)	(NA)	340.7
Operating manufacturing establishments:											
1971 <sup>8</sup> .....	(NA)	(NA)	1,659.0	14,436.7	1,119.4	2,182.7	8,040.0	27,874.2	20,923.0	49,168.1	1,398.6
1970 <sup>8</sup> .....	(NA)	(NA)	1,831.6	14,827.2	1,237.4	2,417.4	8,320.6	27,773.5	21,003.7	48,420.8	1,519.7
1969 <sup>8</sup> .....	(NA)	(NA)	1,917.8	14,829.7	1,324.0	2,618.5	8,445.7	28,210.9	21,115.9	48,913.7	1,640.7
1968 <sup>8</sup> .....	(NA)	(NA)	1,882.7	13,807.8	1,304.1	2,596.5	7,986.0	26,425.0	20,321.6	46,470.4	1,477.6
1966 <sup>8</sup> .....	(NA)	(NA)	1,811.0	11,988.1	1,318.5	2,641.9	7,259.3	23,481.7	18,472.6	40,842.6	1,388.3
1965 <sup>8</sup> .....	(NA)	(NA)	1,604.8	10,449.5	1,138.6	2,313.1	6,231.6	20,161.7	15,430.7	35,127.3	1,045.9
1964 <sup>8</sup> .....	(NA)	(NA)	1,483.8	9,407.3	1,029.9	2,070.2	5,568.9	17,765.4	13,234.0	30,784.7	761.3
1962 <sup>8</sup> .....	(NA)	(NA)	1,523.4	9,083.4	1,046.0	2,120.9	5,317.7	16,416.4	12,674.7	29,133.4	652.7
1961 <sup>8</sup> .....	(NA)	(NA)	1,432.1	8,207.4	969.8	1,950.6	4,680.8	14,433.0	11,564.7	25,918.9	639.1
1960 <sup>8</sup> .....	(NA)	(NA)	1,376.6	7,515.4	962.0	1,932.0	4,465.5	13,484.2	(NA)	(NA)	636.8
1959 <sup>8</sup> .....	(NA)	(NA)	1,274.1	6,751.6	926.7	1,854.7	4,195.9	12,825.8	(NA)	(NA)	553.8
1957 <sup>9</sup> .....	(NA)	(NA)	1,084.4	5,133.4	794.5	1,565.2	3,292.5	9,620.4	(NA)	(NA)	524.1
1956 <sup>9</sup> .....	(NA)	(NA)	1,080.3	4,903.0	816.7	1,617.9	3,261.2	9,112.0	(NA)	(NA)	475.4
1955 <sup>9</sup> .....	(NA)	(NA)	1,001.0	4,313.7	758.7	1,521.0	2,896.0	8,002.1	(NA)	(NA)	334.6
1953 <sup>9</sup> .....	(NA)	(NA)	1,095.9	4,424.8	851.4	1,702.9	3,077.5	7,876.2	(NA)	(NA)	406.4
1952 <sup>9</sup> .....	(NA)	(NA)	957.3	3,750.2	740.5	1,521.0	2,629.4	6,873.2	(NA)	(NA)	(NA)
1951 <sup>9</sup> .....	4,294	(NA)	876.6	3,193.3	692.1	1,396.4	2,277.7	5,753.2	(NA)	(NA)	296.3
1950 <sup>9</sup> .....	3,873	(NA)	765.6	2,532.9	609.8	1,221.2	1,799.7	4,815.4	(NA)	(NA)	195.5
1949 <sup>9</sup> .....	(NA)	(NA)	663.1	2,144.8	506.1	1,025.6	1,460.0	3,901.7	(NA)	(NA)	187.3
1947 <sup>6</sup> .....	3,970	(NA)	796.4	2,258.7	634.7	1,278.0	1,636.7	3,860.2	(NA)	(NA)	224.6
1939 <sup>10</sup> .....	1,979	(NA)	(NA)	(NA)	247.9	(NA)	323.4	941.5	(NA)	(NA)	(NA)
1937 <sup>11</sup> .....	1,597	(NA)	374.3	559.4	306.0	(NA)	408.0	1,102.1	(NA)	(NA)	(NA)
1935.....	1,589	(NA)	275.3	347.5	224.4	(NA)	241.0	685.7	(NA)	(NA)	(NA)
1933 <sup>12</sup> .....	1,365	(NA)	202.1	211.8	163.7	(NA)	145.4	404.2	(NA)	(NA)	(NA)
1931.....	1,596	(NA)	(NA)	(NA)	216.6	(NA)	239.6	762.6	(NA)	(NA)	(NA)
1929.....	1,861	(NA)	421.3	649.5	343.1	(NA)	474.2	1,389.4	(NA)	(NA)	(NA)
1927.....	1,837	(NA)	322.4	509.4	255.8	(NA)	356.4	1,049.4	(NA)	(NA)	(NA)
1925 <sup>13</sup> .....	1,807	(NA)	308.6	463.0	251.2	(NA)	338.0	939.5	(NA)	(NA)	(NA)
1923.....	1,782	(NA)	331.5	473.8	255.4	(NA)	330.4	806.4	(NA)	(NA)	(NA)
1921.....	1,487	(NA)	239.9	338.9	179.1	(NA)	216.0	547.1	(NA)	(NA)	(NA)
1919.....	1,570	(NA)	305.2	379.0	241.1	(NA)	272.2	671.7	(NA)	(NA)	(NA)
1914.....	1,048	(NA)	155.7	117.9	127.5	(NA)	80.1	200.5	(NA)	(NA)	(NA)
1909.....	1,027	(NA)	111.1	73.4	92.5	(NA)	52.2	121.4	(NA)	(NA)	(NA)
1904 <sup>14</sup> .....	798	(NA)	75.0	45.3	63.9	(NA)	33.5	80.0	(NA)	(NA)	(NA)
1899 <sup>14</sup> .....	592	(NA)	48.5	26.0	43.3	(NA)	21.2	44.4	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

<sup>1</sup>The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

<sup>3</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

<sup>6</sup>Data for 1947, 1954, and later years, exclude establishments primarily engaged in the manufacture of automatic temperature controls, whereas data for 1949 to 1953 include these establishments.

<sup>7</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

Footnotes continued on next page.

TABLE 1. General Statistics: 1972 and Earlier Years—Continued

(Footnotes for table 1)—Continued

<sup>9</sup>Figure for 1958 to 1971 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification system. Prior to 1958, data exclude establishments primarily engaged in the manufacture of household ranges and ovens; household refrigerator and home and farm freezers; household laundry equipment; household vacuum cleaners; sewing machine; water heaters, except electric; and other household appliance. Establishments primarily engaged in the manufacture of hearing aids; high frequency, induction, and dielectric heating apparatus; commercial food warming equipment; industrial electric heating units and devices; and insulated wire and cable made from purchased wire, are included in data prior to 1958.

<sup>10</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufacture. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufacture volumes for this period.

<sup>11</sup>Data for 1939 and earlier years exclude establishments primarily engaged in the manufacture of electric (dry) shavers.

<sup>12</sup>Figures for 1937 and earlier years include data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generator and water-wheel generator sets, dictating machine, and electric industrial furnace and ovens. Value added for 1939 on a basis comparable with earlier years was \$1,000 million.

<sup>13</sup>The figures for 1933 and earlier years include data for establishments primarily engaged in the manufacture of certain types of beauty and barber shop equipment classified for later years in the "Miscellaneous manufactures" industries.

<sup>14</sup>The figures for 1925 and earlier years include data for establishments primarily engaged in the manufacture of certain types of mechanical refrigerator, classified for later years in the machinery (except electrical) industries.

<sup>15</sup>The figures for 1899 and 1904 include data for establishments primarily engaged in the manufacture of signs and advertising novelties, classified for later years in the "Miscellaneous manufactures" industries.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total  (number)	With 20 employ- ees or more (number)	Number  (1,000)	Payroll  (million dollars)	Number  (1,000)	Man-hours  (millions)	Wages  (million dollars)						
36	ELECTRIC, ELECTRONIC EQUIP . . .	12 270	5 732	1 661.1	15 189.0	1 160.0	2 273.8	8 811.5	30 578.5	23 301.3	53 394.3	1 417.5	(NA)	(NA)
	NORTHEAST REGION . . . . .	4 307	2 037	525.8	5 016.8	345.8	678.8	2 681.3	9 241.4	6 553.5	15 853.2	420.4	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	1 176	607	151.9	1 366.0	98.5	193.8	696.5	2 531.8	1 663.8	4 215.9	121.6	(NA)	(NA)
	MAINE . . . . .	25	18	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	73	37	12.3	106.0	6.2	12.5	35.1	169.3	84.5	257.0	7.4	(NA)	(NA)
	VERMONT . . . . .	15	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS . . . . .	627	322	78.8	726.1	52.7	103.3	397.8	1 333.3	845.9	2 165.6	70.9	(NA)	(NA)
	RHODE ISLAND . . . . .	61	32	8.3	64.4	6.0	10.5	33.3	121.0	88.3	208.9	12.5	(NA)	(NA)
	CONNECTICUT . . . . .	375	190	40.7	363.6	26.4	52.7	188.6	715.0	435.4	1 163.5	21.4	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	3 127	1 430	373.9	3 650.8	247.3	488.0	1 984.9	6 709.6	4 889.6	11 637.3	298.7	(NA)	(NA)
	NEW YORK . . . . .	1 559	649	161.0	1 638.5	99.7	196.6	788.0	2 917.6	2 354.7	5 361.4	126.8	(NA)	(NA)
	NEW JERSEY . . . . .	869	401	96.5	952.8	65.3	126.2	552.3	1 590.2	999.1	2 580.1	66.4	(NA)	(NA)
	PENNSYLVANIA . . . . .	699	380	116.4	1 059.5	82.4	162.3	644.5	2 201.8	1 535.8	3 695.8	105.5	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	3 078	1 642	569.6	5 106.0	426.1	826.2	3 369.0	10 866.2	9 216.0	19 796.3	432.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	2 505	1 339	483.2	4 389.8	361.7	700.3	2 907.8	9 290.8	7 838.0	16 866.7	364.0	(NA)	(NA)
	OHIO . . . . .	574	313	110.2	1 018.2	82.6	160.4	673.8	2 277.9	1 743.0	3 960.1	82.6	(NA)	(NA)
	INDIANA . . . . .	282	169	116.4	1 110.2	94.0	182.6	807.1	2 324.5	1 771.6	4 043.3	78.0	(NA)	(NA)
	ILLINOIS . . . . .	969	523	171.4	1 440.7	123.9	235.1	900.6	3 090.1	2 961.6	5 947.9	153.4	(NA)	(NA)
	MICHIGAN . . . . .	420	181	37.1	372.7	28.8	59.3	264.5	769.4	735.5	1 488.5	19.6	(NA)	(NA)
	WISCONSIN . . . . .	260	153	48.0	447.9	32.5	62.9	261.7	828.8	626.4	1 426.9	30.3	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	573	303	86.4	716.2	64.4	125.9	461.3	1 575.4	1 378.0	2 929.6	68.4	(NA)	(NA)
	MINNESOTA . . . . .	200	96	18.3	158.8	12.8	24.4	92.9	354.9	268.1	612.7	16.3	(NA)	(NA)
	IOWA . . . . .	63	39	20.0	174.8	14.6	28.5	111.1	405.3	355.3	754.4	13.0	(NA)	(NA)
	MISSOURI . . . . .	192	114	33.8	270.4	26.2	51.7	182.7	568.1	607.3	1 175.1	26.8	(NA)	(NA)
	SOUTH DAKOTA . . . . .	6	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA . . . . .	43	24	9.6	79.5	7.2	14.1	53.2	171.6	95.9	261.0	7.9	(NA)	(NA)
	KANSAS . . . . .	66	26	3.8	29.0	3.0	5.9	19.2	70.0	47.6	117.0	4.1	(NA)	(NA)
	SOUTH REGION . . . . .	2 062	978	345.1	2 841.1	251.9	501.4	1 698.7	6 498.4	5 002.4	11 291.3	347.5	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	981	468	156.5	1 348.9	105.8	212.4	709.0	2 862.7	2 029.9	4 814.6	161.2	(NA)	(NA)
	DELAWARE . . . . .	14	8	9	7.1	7	1.2	4.2	11.2	15.0	25.7	8	(NA)	(NA)
	MARYLAND . . . . .	142	71	27.6	313.3	14.7	31.6	133.3	508.2	380.1	868.7	23.4	(NA)	(NA)
	DISTRICT OF COLUMBIA . . . . .	9	3	6	4.0	3	3	9	9	1.8	10.4	4	(NA)	(NA)
	VIRGINIA . . . . .	127	63	29.0	249.1	19.9	40.8	121.7	557.5	370.8	917.2	33.8	(NA)	(NA)
	WEST VIRGINIA . . . . .	32	16	5.2	42.5	4.2	8.3	31.3	111.1	73.1	185.0	8.5	(NA)	(NA)
	NORTH CAROLINA . . . . .	142	80	35.4	270.4	26.7	52.3	169.8	687.6	520.5	1 188.3	36.1	(NA)	(NA)
	SOUTH CAROLINA . . . . .	51	39	13.1	80.7	10.6	21.0	56.2	185.3	143.8	314.2	16.5	(NA)	(NA)
	GEORGIA . . . . .	109	47	11.6	97.5	8.3	16.2	59.5	226.6	223.1	451.2	10.8	(NA)	(NA)
	FLORIDA . . . . .	355	141	33.0	284.4	20.4	40.6	132.2	566.1	301.7	849.9	30.9	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	403	232	97.9	739.0	80.8	159.2	529.5	2 005.9	1 722.2	3 653.2	95.1	(NA)	(NA)
	KENTUCKY . . . . .	89	61	34.6	279.8	29.0	55.5	210.1	826.1	641.6	1 440.2	27.0	(NA)	(NA)
	TENNESSEE . . . . .	181	88	34.4	231.8	28.2	56.4	165.3	689.5	731.0	1 380.4	41.0	(NA)	(NA)
	ALABAMA . . . . .	79	41	13.5	134.1	10.2	20.2	81.3	245.7	133.0	373.8	11.1	(NA)	(NA)
	MISSISSIPPI . . . . .	54	42	15.5	93.3	13.3	27.1	72.7	244.5	216.9	458.7	16.0	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	678	278	90.6	753.3	65.3	129.9	460.2	1 629.9	1 250.1	2 827.6	91.2	(NA)	(NA)
	ARKANSAS . . . . .	66	46	18.1	118.2	15.5	29.7	91.4	343.6	292.1	632.4	11.3	(NA)	(NA)
	LOUISIANA . . . . .	45	15	7.0	59.1	5.8	11.2	44.3	145.0	163.7	301.5	6.6	(NA)	(NA)
	OKLAHOMA . . . . .	86	36	10.9	89.1	8.3	15.4	60.3	202.4	160.6	345.4	8.4	(NA)	(NA)
	TEXAS . . . . .	481	181	54.6	486.9	35.6	73.5	264.2	938.9	633.6	1 548.3	64.9	(NA)	(NA)

See footnote at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
36	ELECTRIC, ELECTRONIC EQUIPMENT-- CONTINUED													
	WEST REGION. . . . .	2 827	1 075	220.7	2 225.1	136.2	266.9	1 067.1	3 952.5	2 528.3	6 452.2	217.3	(NA)	(NA)
	MOUNTAIN DIVISION. . . . .	337	113	37.2	315.1	23.8	45.6	156.5	531.3	374.4	898.0	40.8	(NA)	(NA)
	IDAHO. . . . .	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO. . . . .	113	34	6.9	59.7	5.0	9.6	35.9	85.6	116.1	198.5	12.6	(NA)	(NA)
	NEW MEXICO. . . . .	39	15	2.8	15.7	2.1	4.3	8.9	42.0	23.6	60.8	4.8	(NA)	(NA)
	ARIZONA. . . . .	103	37	22.7	204.0	13.4	25.4	91.1	331.8	171.7	505.1	21.2	(NA)	(NA)
	UTAH. . . . .	46	15	3.3	24.7	2.3	4.5	14.7	52.8	48.8	100.5	.6	(NA)	(NA)
	NEVADA. . . . .	20	8	.8	6.6	.5	1.0	3.5	12.5	9.9	22.4	.3	(NA)	(NA)
	PACIFIC DIVISION. . . . .	2 490	962	183.5	1 910.0	112.4	221.2	916.6	3 421.2	2 153.9	5 554.2	176.5	(NA)	(NA)
	WASHINGTON. . . . .	123	31	3.5	31.4	2.3	4.5	17.4	61.6	52.2	109.2	4.2	(NA)	(NA)
	DREGON. . . . .	98	36	3.5	29.2	2.7	5.0	18.0	54.3	52.8	104.3	1.8	(NA)	(NA)
	CALIFORNIA. . . . .	2 258	895	176.6	1 849.2	107.4	211.7	875.1	3 304.6	2 049.2	5 339.3	(D)	(NA)	(NA)
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	784	419	116.0	1 040.0	65.3	168.4	674.6	2 060.3	1 544.7	3 585.4	63.7	(NA)	(NA)
	NORTHEAST REGION. . . . .	239	134	47.7	469.0	33.3	65.3	295.0	840.1	554.1	1 386.3	21.6	(NA)	(NA)
	NEW ENGLAND DIVISION. . . . .	63	38	13.1	123.0	8.5	17.3	69.7	217.7	163.8	376.8	8.3	(NA)	(NA)
	MAINE. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE. . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS. . . . .	30	18	7.3	70.8	4.7	9.4	41.0	107.0	78.1	184.8	4.6	(NA)	(NA)
	CONNECTICUT. . . . .	25	15	5.0	45.9	3.1	6.5	23.9	94.8	72.4	162.7	3.2	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION. . . . .	176	96	34.6	345.9	24.8	48.0	225.3	622.4	390.3	1 009.6	13.3	(NA)	(NA)
	NEW YORK. . . . .	57	29	2.6	20.9	2.0	3.7	14.1	41.8	36.7	77.7	1.7	(NA)	(NA)
	NEW JERSEY. . . . .	63	30	5.6	49.6	3.9	7.6	29.3	84.3	56.5	141.3	1.6	(NA)	(NA)
	PENNSYLVANIA. . . . .	56	37	26.4	275.5	18.9	36.6	181.8	496.2	297.1	790.6	10.0	(NA)	(NA)
	NORTH CENTRAL REGION. . . . .	240	137	36.2	321.7	27.3	54.9	213.3	646.0	498.4	1 132.9	17.2	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . . .	201	115	27.6	248.6	20.5	40.5	158.5	461.1	392.9	848.5	13.4	(NA)	(NA)
	OHIO. . . . .	49	27	4.7	41.0	3.3	6.2	25.0	82.8	70.7	152.0	2.6	(NA)	(NA)
	INDIANA. . . . .	13	7	5.3	47.4	3.9	7.7	31.9	94.3	63.8	157.4	1.7	(NA)	(NA)
	ILLINOIS. . . . .	80	52	11.9	102.9	9.0	18.2	65.6	168.8	146.0	311.6	5.1	(NA)	(NA)
	MICHIGAN. . . . .	35	15	1.1	10.2	.8	1.5	6.6	19.6	17.9	37.3	.5	(NA)	(NA)
	WISCONSIN. . . . .	24	14	4.7	47.1	3.5	6.9	29.5	95.6	94.5	190.2	3.4	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	39	22	8.6	73.1	6.8	14.4	54.8	184.9	105.4	284.4	3.9	(NA)	(NA)
	MINNESOTA. . . . .	7	5	7	4.9	.5	1.1	2.9	9.5	7.4	16.4	.6	(NA)	(NA)
	IOWA. . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI. . . . .	18	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA. . . . .	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION. . . . .	162	87	25.1	187.9	19.7	38.4	129.5	446.2	381.0	825.5	18.6	(NA)	(NA)
	SOUTH ATLANTIC DIVISION. . . . .	77	42	12.7	98.3	9.7	18.7	63.2	236.6	189.6	427.1	7.5	(NA)	(NA)
	MARYLAND. . . . .	12	5	.8	5.8	.6	1.2	3.4	9.7	6.5	16.1	.3	(NA)	(NA)
	VIRGINIA. . . . .	7	4	1.6	11.7	1.1	2.2	7.0	26.2	24.9	51.2	.6	(NA)	(NA)
	NORTH CAROLINA. . . . .	18	7	3.4	23.8	2.8	5.0	16.3	57.8	44.1	101.9	2.5	(NA)	(NA)
	SOUTH CAROLINA. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA. . . . .	19	15	5.7	48.3	4.2	8.3	30.5	119.3	92.7	214.0	3.4	(NA)	(NA)
	FLORIDA. . . . .	14	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	32	19	8.9	61.3	7.4	14.6	46.6	150.9	121.6	270.9	7.9	(NA)	(NA)
	KENTUCKY. . . . .	12	10	4.9	36.3	4.0	7.5	27.1	87.4	55.8	141.4	3.0	(NA)	(NA)
	TENNESSEE. . . . .	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA. . . . .	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI. . . . .	7	5	3.0	16.4	2.7	5.5	13.7	40.7	44.1	84.8	3.8	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . . .	53	26	3.5	28.4	2.5	5.1	19.8	58.8	69.8	127.6	3.2	(NA)	(NA)
	ARKANSAS. . . . .	6	5	1.2	8.7	.8	1.5	5.9	17.5	22.4	40.2	(D)	(NA)	(NA)
	LOUISIANA. . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS. . . . .	36	15	1.5	12.1	1.1	2.2	7.9	26.7	32.8	58.9	.9	(NA)	(NA)
	WEST REGION. . . . .	143	61	7.0	61.4	4.9	9.8	36.8	128.0	111.2	240.7	6.2	(NA)	(NA)
	MOUNTAIN DIVISION. . . . .	22	5	.4	3.7	.3	.6	2.0	8.6	3.8	12.0	(D)	(NA)	(NA)
	COLORADO. . . . .	10	2	1.2	1.2	.1	.2	.8	3.6	2.6	6.1	(D)	(NA)	(NA)
	ARIZONA. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION. . . . .	121	56	6.6	57.7	4.6	9.2	34.8	119.3	107.4	228.7	(D)	(NA)	(NA)
	WASHINGTON. . . . .	12	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DREGON. . . . .	11	5	.3	3.3	.2	.5	2.0	8.2	14.2	22.1	.3	(NA)	(NA)
	CALIFORNIA. . . . .	97	45	5.9	51.2	4.1	8.3	30.8	104.0	85.8	192.1	(D)	(NA)	(NA)
362	ELECTRICAL INDUSTRIAL APPARATUS. .	1 510	719	188.0	1 665.1	134.4	269.1	1 034.3	3 217.9	2 266.6	5 402.3	148.3	(NA)	(NA)
	NORTHEAST REGION. . . . .	425	183	51.8	484.4	35.6	73.5	288.9	896.8	593.5	1 489.4	32.2	58.1	798.5
	NEW ENGLAND DIVISION. . . . .	127	52	13.7	118.6	9.0	19.4	64.5	181.0	152.2	340.5	6.6	10.5	124.8
	NEW HAMPSHIRE. . . . .	8	3	.3	2.4	.3	.5	1.6	4.7	2.9	7.5	(D)	CC	(D)
	MASSACHUSETTS. . . . .	54	19	9.2	77.8	6.5	14.4	46.3	128.9	97.2	224.9	4.7	4.8	51.0
	RHODE ISLAND. . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT. . . . .	57	27	4.0	37.1	2.1	4.1	15.8	44.8	49.7	103.3	1.3	4.8	66.8
	MIDDLE ATLANTIC DIVISION. . . . .	298	131	38.0	365.8	26.6	54.1	224.4	715.8	441.3	1 148.9	25.6	47.6	673.7
	NEW YORK. . . . .	118	51	21.6	223.4	15.4	31.6	139.1	445.6	254.4	699.1	13.7	27.1	408.2
	NEW JERSEY. . . . .	74	26	4.3	35.9	3.1	6.1	22.4	56.6	45.7	97.1	1.2	5.2	54.0
	PENNSYLVANIA. . . . .	106	54	12.2	106.5	8.1	16.4	63.0	213.6	141.2	352.7	10.7	15.3	211.5
	NORTH CENTRAL REGION. . . . .	579	332	88.7	829.5	62.7	124.3	517.7	1 496.5	1 026.8	2 469.2	54.1	103.2	1 374.4
	EAST NORTH CENTRAL DIVISION. . . . .	497	286	79.8	756.7	56.1	111.3	469.0	1 348.4	913.7	2 213.1	46.7	91.8	1 241.1
	OHIO. . . . .	130	80	27.1	276.0	18.2	36.8	164.4	501.7	363.9	850.4	20.4	34.7	493.7
	INDIANA. . . . .	57	36	14.3	124.2	11.3	22.1	89.3	217.6	139.5	348.2	5.3	14.4	166.5
	ILLINOIS. . . . .	133	73	11.4	89.2	8.4	15.8	52.7	184.9	136.5	316.2	7.5	11.9	145.1
	MICHIGAN. . . . .	108	52	7.2	72.3	5.3	11.5	46.8	127.4	82.8	207.0	2.9	8.7	109.0
	WISCONSIN. . . . .	69	45	19.8	195.0	12.9	25.1	115.8	316.8	191.0	491.3	10.6	22.2	326.6

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
362	ELECTRICAL INDUSTRIAL APPARATUS--CONTINUED													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION. . . .	82	46	8.8	72.8	6.6	13.0	48.7	148.1	113.1	256.1	7.4	9.8	117.8
	MINNESOTA. . . . .	41	22	4.1	36.8	2.8	5.5	21.9	83.3	60.8	141.1	2.7	4.8	73.0
	IOWA. . . . .	6	4	.6	4.1	.4	.8	2.7	9.6	6.2	15.4	.7	AA	(0)
	MISSOURI. . . . .	28	17	3.9	29.0	3.2	6.1	22.6	50.5	43.3	92.3	3.8	4.5	39.3
	KANSAS. . . . .	3	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION. . . . .	239	115	39.5	278.3	30.7	60.9	187.9	691.0	539.9	1 203.7	55.0	32.2	442.7
	SOUTH ATLANTIC DIVISION. . . . .	109	53	17.0	132.1	11.8	23.6	78.2	314.3	201.5	507.1	30.3	16.6	229.1
	MARYLAND. . . . .	8	4	1.3	9.5	1.0	2.1	6.5	16.2	19.2	35.8	.9	1.3	21.0
	VIRGINIA. . . . .	24	13	6.0	52.3	4.1	8.1	28.2	108.4	67.5	175.0	(0)	FF	(0)
	WEST VIRGINIA. . . . .	11	8	1.7	14.7	1.2	2.5	10.0	29.6	23.2	54.4	6.9	1.2	25.2
	NORTH CAROLINA. . . . .	22	14	4.6	31.0	3.3	6.8	19.6	87.9	45.9	126.7	10.6	3.6	40.3
	SOUTH CAROLINA. . . . .	10	8	1.7	12.5	1.3	2.4	7.9	48.9	24.6	67.6	2.1	EE	(0)
	GEORGIA. . . . .	11	4	1.2	8.4	.8	1.4	4.8	18.1	16.6	37.4	(0)	AA	(0)
	FLORIDA. . . . .	21	2	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	EAST SOUTH CENTRAL DIVISION. . . .	41	28	12.3	78.0	10.5	21.0	60.2	187.4	197.3	376.7	16.3	10.0	146.9
	KENTUCKY. . . . .	8	6	2.7	18.5	2.4	4.3	14.8	46.6	39.6	84.0	2.6	3.5	48.9
	TENNESSEE. . . . .	19	13	6.0	36.4	5.2	10.7	28.4	85.0	109.7	189.1	9.5	FF	(0)
	ALABAMA. . . . .	7	3	.3	2.3	.2	.4	1.2	4.0	7.8	11.6	.2	EE	(0)
	MISSISSIPPI. . . . .	7	6	3.3	20.7	2.7	5.5	15.8	51.7	40.1	91.9	4.0	EE	(0)
	WEST SOUTH CENTRAL DIVISION. . . .	89	34	10.2	68.2	8.3	16.3	49.6	189.3	141.1	319.9	8.4	5.6	66.7
	ARKANSAS. . . . .	12	11	7.3	45.6	6.6	13.0	38.6	138.1	73.1	206.2	5.1	3.8	44.2
	OKLAHOMA. . . . .	9	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	TEXAS. . . . .	61	17	2.0	16.4	1.1	2.4	7.3	39.9	53.9	89.7	2.9	EE	(0)
	WEST REGION. . . . .	267	89	8.1	73.0	5.3	10.4	39.8	133.6	106.5	240.0	7.1	13.2	176.0
	MOUNTAIN DIVISION. . . . .	30	8	.5	3.7	.4	.7	2.2	7.5	12.3	19.6	.4	1.3	12.2
	COLORADO. . . . .	12	4	1.2	1.5	.1	.2	.7	3.8	2.9	6.7	.2	1.0	10.5
	ARIZONA. . . . .	10	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	.8
	PACIFIC DIVISION. . . . .	237	81	7.6	69.3	5.0	9.7	37.6	126.1	94.2	220.4	6.6	12.0	163.8
	WASHINGTON. . . . .	16	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	3.7
	CALIFORNIA. . . . .	207	77	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	11.5	158.2
363	HOUSEHOLD APPLIANCES. . . . .	645	358	163.0	1 369.2	130.9	254.9	980.3	3 563.3	3 481.6	6 940.3	151.8	(NA)	(NA)
	NORTHEAST REGION. . . . .	207	90	22.3	185.5	17.7	34.6	126.8	447.6	304.4	760.3	20.6	25.1	355.9
	NEW ENGLAND DIVISION. . . . .	53	26	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	7.7	143.6
	MAINE. . . . .	4	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS. . . . .	28	12	1.9	15.9	1.6	2.9	11.2	50.1	25.3	74.3	1.3	2.2	31.5
	CONNECTICUT. . . . .	14	11	4.9	40.2	3.8	7.2	26.5	109.8	71.0	192.4	2.3	5.2	109.3
	MIDDLE ATLANTIC DIVISION. . . . .	154	64	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	17.4	212.1
	NEW YORK. . . . .	99	41	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	7.9	92.7
	NEW JERSEY. . . . .	35	13	4.2	40.1	3.3	6.6	28.1	72.1	32.5	102.0	9.2	FF	(0)
	PENNSYLVANIA. . . . .	20	10	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	NORTH CENTRAL REGION. . . . .	214	138	85.8	775.0	67.3	131.2	551.3	1 915.6	2 003.8	3 847.1	74.9	101.5	1 513.3
	EAST NORTH CENTRAL DIVISION. . . .	174	112	72.5	672.9	56.5	110.5	476.5	1 604.7	1 694.7	3 225.4	60.3	88.9	1 307.9
	OHIO. . . . .	42	28	23.3	223.3	18.2	35.8	158.3	618.3	555.5	1 153.2	22.9	34.6	632.0
	INDIANA. . . . .	12	9	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	12.7	159.9
	ILLINOIS. . . . .	61	36	23.1	212.5	18.1	36.1	153.1	427.5	466.3	854.1	17.9	25.6	313.9
	MICHIGAN. . . . .	33	19	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	10.0	112.4
	WISCONSIN. . . . .	26	20	7.9	72.2	5.3	10.0	42.0	136.5	150.7	279.0	7.0	5.9	99.7
	WEST NORTH CENTRAL DIVISION. . . .	40	26	13.3	102.1	10.8	20.6	74.8	310.9	309.1	621.7	14.6	12.6	205.4
	MINNESOTA. . . . .	10	4	3.1	26.2	2.4	4.3	18.1	72.8	89.2	161.0	4.8	FF	(0)
	IOWA. . . . .	11	9	6.2	54.2	4.9	9.2	39.9	186.8	156.9	342.8	6.4	FF	(0)
	MISSOURI. . . . .	15	13	3.9	21.6	3.5	7.1	16.8	51.2	62.9	117.6	3.3	4.2	41.0
	SOUTH REGION. . . . .	151	102	47.5	348.2	40.4	78.4	262.1	1 048.5	1 012.3	2 025.5	48.1	36.3	569.5
	SOUTH ATLANTIC DIVISION. . . . .	50	28	10.4	65.5	9.0	17.4	49.5	172.7	177.1	338.0	8.8	8.2	97.8
	DELAWARE. . . . .	1	1	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	8B	(0)
	MARYLAND. . . . .	5	4	1.8	15.8	1.5	3.2	11.9	20.0	33.6	53.6	4.9	AA	(0)
	VIRGINIA. . . . .	4	2	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CAROLINA. . . . .	12	9	4.8	28.7	4.3	8.3	22.5	91.0	83.8	170.8	2.2	5.5	66.1
	SOUTH CAROLINA. . . . .	7	6	2.6	14.6	2.2	4.3	10.8	36.2	44.6	73.4	1.1	1.1	18.0
	FLORIDA. . . . .	15	4	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.3
	EAST SOUTH CENTRAL DIVISION. . . .	62	54	31.5	247.6	26.7	51.9	186.1	772.3	718.6	1 466.0	36.0	24.7	420.1
	KENTUCKY. . . . .	13	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	TENNESSEE. . . . .	31	26	11.2	75.5	9.4	18.6	55.5	189.9	254.1	439.6	14.2	FF	(0)
	ALABAMA. . . . .	5	5	.5	2.7	.4	.8	2.0	9.8	10.9	19.3	4.2	(NA)	(NA)
	MISSISSIPPI. . . . .	13	12	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.9	18.7
	WEST SOUTH CENTRAL DIVISION. . . .	39	20	5.6	35.1	4.8	9.1	26.4	103.4	116.5	221.5	3.3	3.3	51.6
	ARKANSAS. . . . .	8	6	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	LOUISIANA. . . . .	5	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	8B	(0)
	TEXAS. . . . .	23	9	1.4	8.2	1.1	2.2	5.9	18.8	24.4	42.8	.9	.4	4.9
	WEST REGION. . . . .	73	28	7.4	60.6	5.6	10.7	40.1	151.7	160.1	307.3	8.3	6.3	101.6
	MOUNTAIN DIVISION. . . . .	9	4	.9	5.9	.7	1.3	3.4	21.7	22.8	43.0	(0)	8B	(0)
	COLORADO. . . . .	4	1	8B	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	8B	(0)
	NEW MEXICO. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	UTAH. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEVADA. . . . .	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION. . . . .	64	24	6.4	54.7	4.9	9.4	36.7	130.0	137.2	264.3	(0)	FF	(0)
	OREGON. . . . .	6	2	.3	2.5	.2	.4	1.9	4.2	5.2	8.9	.1	AA	(0)
	CALIFORNIA. . . . .	53	20	6.1	51.5	4.6	8.8	34.4	124.5	131.2	253.3	(0)	5.5	86.3

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
364	ELEC. LIGHTING, WIRING EQUIP . . .	1 897	943	177.1	1 413.7	138.6	270.2	946.9	3 276.8	2 430.5	5 650.8	159.7	(NA)	(NA)
	NDRTHEAST REGION . . . . .	814	398	74.2	572.5	58.1	112.2	380.1	1 254.8	960.6	2 199.1	62.8	73.1	961.1
	NEW ENGLAND DIVISION . . . . .	168	93	21.5	169.8	16.9	33.0	113.9	374.8	238.2	604.4	22.8	22.3	302.1
	MAINE . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	VERMONT . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MASSACHUSETTS . . . . .	82	48	8.2	64.7	6.1	12.1	40.9	151.4	101.0	251.6	6.7	10.5	153.1
	RHODE ISLAND . . . . .	10	7	3.1	20.7	2.7	5.0	15.4	36.5	37.5	74.8	(D)	FF	(D)
	CONNECTICUT . . . . .	61	30	8.2	69.9	6.4	12.6	47.2	147.5	78.7	218.8	4.2	8.2	110.8
	MIDDLE ATLANTIC DIVISION . . . . .	646	305	52.6	402.7	41.2	79.2	266.2	880.0	722.4	1 594.7	39.9	51.2	662.9
	NEW YORK . . . . .	327	135	20.3	149.1	15.9	29.3	99.6	326.4	250.5	569.6	18.7	21.1	237.7
	NEW JERSEY . . . . .	157	74	17.4	142.6	12.9	25.9	88.2	253.9	228.0	485.8	9.1	16.1	212.6
	PENNSYLVANIA . . . . .	162	96	14.9	111.0	12.4	23.9	78.4	399.8	243.9	539.3	12.1	14.0	212.5
	NDRTH CENTRAL REGION . . . . .	468	260	58.0	503.6	45.3	88.6	339.6	1 147.0	816.4	1 949.8	47.3	51.0	751.1
	EAST NDRTH CENTRAL DIVISION . . . . .	396	220	50.7	441.7	39.8	77.7	360.4	987.8	712.8	1 687.8	40.5	45.2	661.5
	DHID . . . . .	109	70	19.4	165.8	15.9	30.7	119.3	417.9	306.2	720.0	11.5	16.0	252.1
	INDIANA . . . . .	35	22	8.5	89.6	6.7	13.4	64.4	171.6	99.7	272.2	5.3	8.0	129.6
	ILLINDIS . . . . .	188	98	19.5	161.3	14.7	28.7	100.5	350.3	248.0	588.5	20.6	17.9	242.0
	MICHIGAN . . . . .	45	21	1.3	9.7	1.1	1.9	6.5	21.2	22.5	43.5	.8	1.6	21.3
	WISCONSIN . . . . .	19	11	2.0	17.3	1.4	3.0	10.2	28.8	34.8	64.0	2.2	1.7	16.5
	WEST NDRTH CENTRAL DIVISION . . . . .	72	40	7.3	61.8	5.5	11.0	39.2	159.2	103.6	262.0	6.8	5.9	89.6
	MINNESOTA . . . . .	21	8	1.5	13.9	1.1	2.5	9.6	30.8	19.4	51.3	1.0	1.0	15.0
	IDWA . . . . .	4	3	.2	.9	.1	.3	.7	2.1	1.2	3.2	.1	(NA)	(NA)
	MISSOURI . . . . .	38	25	5.2	43.5	3.8	7.5	26.5	109.6	76.8	184.0	4.9	4.7	72.2
	KANSAS . . . . .	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION . . . . .	259	139	29.5	212.5	23.8	46.8	150.1	601.6	449.7	1 037.0	32.9	22.2	359.7
	SDUTH ATLANTIC DIVISION . . . . .	113	58	12.8	95.4	10.3	20.4	65.1	249.2	205.6	448.8	16.3	9.4	147.0
	MARYLAND . . . . .	12	4	.2	1.3	.1	.2	.8	3.8	6.4	10.3	.2	AA	(D)
	VIRGINIA . . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA . . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	54.5
	NDRTH CAROLINA . . . . .	23	13	4.5	33.1	3.6	7.3	22.6	80.7	62.9	141.3	5.3	2.3	39.8
	SDUTH CAROLINA . . . . .	6	5	1.0	5.5	.9	1.7	4.3	11.3	10.7	21.1	(D)	1.1	14.0
	GEORGIA . . . . .	14	11	2.3	19.2	1.5	2.9	10.2	45.1	57.7	101.3	4.4	1.5	22.0
	FLDRIDA . . . . .	48	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	9.5
	EAST SDUTH CENTRAL DIVISION . . . . .	58	44	11.9	85.5	9.9	19.3	64.0	255.0	177.9	428.9	11.3	10.3	169.1
	KENTUCKY . . . . .	19	16	4.0	27.5	3.3	6.3	20.5	88.1	62.1	148.3	2.4	3.2	57.8
	TENNESSEE . . . . .	17	11	3.3	24.1	2.9	5.7	18.4	74.6	41.2	115.6	2.1	2.9	54.2
	ALABAMA . . . . .	13	9	2.1	16.1	1.7	3.0	11.5	39.0	20.9	59.2	1.3	1.8	19.8
	MISSISSIPPI . . . . .	9	8	2.5	17.8	2.1	4.2	13.5	53.3	53.8	105.8	5.5	2.4	37.3
	WEST SDUTH CENTRAL DIVISION . . . . .	88	37	4.8	31.6	3.6	7.1	21.0	96.8	66.2	159.3	6.4	2.5	43.4
	ARKANSAS . . . . .	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	OKLAHOMA . . . . .	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS . . . . .	59	26	3.1	20.9	2.1	4.2	12.8	54.0	48.6	98.5	3.9	1.5	16.3
	WEST REGION . . . . .	357	147	15.4	126.2	11.7	22.8	78.1	276.4	204.6	468.7	16.0	10.9	142.2
	MDUNTAIN DIVISION . . . . .	28	6	1.2	8.6	.9	1.7	5.0	21.2	12.5	33.6	1.1	.5	6.6
	IDAHO . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO . . . . .	10	1	.2	2.2	.2	.3	1.2	4.9	4.6	9.5	(D)	.4	3.8
	ARIZONA . . . . .	9	1	.3	2.5	.2	.3	1.3	6.0	2.6	8.7	.2	(NA)	(NA)
	UTAH . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	328	140	14.2	116.5	10.7	20.9	72.2	251.6	191.6	431.5	14.7	10.4	135.6
	WASHINGTON . . . . .	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	DREGON . . . . .	8	3	.2	1.1	.1	.2	.6	2.4	2.4	4.8	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	311	134	13.4	110.5	10.1	19.7	67.9	238.6	180.8	407.8	(D)	9.5	124.6
365	RADIO, TV RECEIVING EQUIPMENT . . .	939	283	106.9	797.9	85.7	163.2	553.7	2 183.4	2 906.9	5 007.8	75.5	(NA)	(NA)
	NDRTHEAST REGION . . . . .	320	96	20.6	156.2	14.8	29.1	95.1	329.1	425.4	750.3	10.0	34.4	379.0
	NEW ENGLAND DIVISION . . . . .	48	16	2.8	16.4	1.9	3.0	9.1	44.6	53.8	96.7	1.9	3.0	36.6
	MASSACHUSETTS . . . . .	27	13	2.5	14.4	1.6	2.5	7.8	41.0	51.5	90.7	1.7	2.5	31.4
	CONNECTICUT . . . . .	16	2	.2	1.3	.1	.3	.8	2.6	1.9	4.5	.1	.3	2.9
	MIDDLE ATLANTIC DIVISION . . . . .	272	80	17.8	139.8	12.9	26.1	86.0	284.5	371.6	653.6	8.2	31.4	342.4
	NEW YORK . . . . .	186	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.3	163.0
	NEW JERSEY . . . . .	57	26	3.6	26.5	2.9	5.8	18.8	50.5	36.5	84.7	1.4	FF	(D)
	PENNSYLVANIA . . . . .	29	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	NDRTH CENTRAL REGION . . . . .	181	77	57.1	448.5	47.3	89.3	329.7	1 262.3	1 761.1	2 984.6	47.8	70.5	829.7
	EAST NORTH CENTRAL DIVISION . . . . .	152	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	66.7	797.1
	DHID . . . . .	25	6	1.5	7.1	1.2	2.3	4.9	22.5	18.7	39.7	.7	1.0	7.7
	INDIANA . . . . .	17	12	22.8	201.1	19.5	37.1	155.4	563.0	482.8	1 028.7	17.6	FF	(D)
	ILLINDIS . . . . .	71	40	26.3	199.3	21.0	39.4	135.7	605.3	1 011.0	1 595.8	27.0	38.8	388.8
	MICHIGAN . . . . .	32	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	37.0
	WISCONSIN . . . . .	7	3	.5	2.0	.4	.8	1.7	3.7	3.0	6.7	.2	EE	(D)
	WEST NDRTH CENTRAL DIVISION . . . . .	29	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	32.7
	MINNESOTA . . . . .	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	IDWA . . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.3
	MISSOURI . . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	SOUTH REGION . . . . .	193	49	20.0	125.4	16.8	32.1	86.6	435.1	587.0	984.1	11.1	18.5	290.3
	SDUTH ATLANTIC DIVISION . . . . .	67	16	9.3	60.1	7.9	15.0	40.2	157.3	224.9	376.4	2.6	4.5	55.3
	VIRGINIA . . . . .	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	NORTH CAROLINA . . . . .	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	GEORGIA . . . . .	17	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLDRIDA . . . . .	25	5	.3	1.6	.2	.3	.9	3.3	2.2	5.5	.3	AA	(D)
	EAST SDUTH CENTRAL DIVISION . . . . .	79	23	7.3	44.6	6.0	11.5	30.8	237.2	261.0	466.9	7.2	8.7	198.0
	KENTUCKY . . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	TENNESSEE . . . . .	56	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MISSISSIPPI . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
365	RADIO, TV RECEIVING EQUIPMENT-- CONTINUED													
	SOUTH REGION--CONTINUED													
	WEST SOUTH CENTRAL DIVISION. . . .	47	10	3.4	20.7	2.9	5.6	15.6	40.6	101.1	140.8	1.0	5.3	37.0
	ARKANSAS . . . . .	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	OKLAHOMA . . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	TEXAS. . . . .	30	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	15.1
	WEST REGION. . . . .	245	61	9.2	67.7	6.7	12.8	42.4	156.9	133.3	288.9	6.6	6.9	87.7
	MOUNTAIN DIVISION. . . . .	24	4	.8	4.7	.7	1.4	3.8	9.2	2.5	11.6	1.7	(NA)	(NA)
	ARIZONA. . . . .	8	3	.7	4.0	.6	1.3	3.4	7.3	1.0	8.3	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	221	57	8.4	63.0	6.0	11.4	38.6	147.7	130.9	277.4	5.0	6.8	87.0
	CALIFORNIA . . . . .	209	55	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	86.7
366	COMMUNICATION EQUIPMENT. . . . .	1 976	1 031	453.6	4 912.1	256.6	497.3	2 269.5	8 453.1	5 308.4	13 665.0	381.4	(NA)	(NA)
	NORTHEAST REGION . . . . .	678	370	146.1	1 668.7	77.5	148.7	732.0	2 676.3	1 566.0	4 214.3	121.7	200.3	2 747.2
	NEW ENGLAND DIVISION . . . . .	190	120	44.7	475.3	23.2	44.5	193.8	834.7	450.3	1 283.5	46.1	54.7	767.7
	MAINE. . . . .	4	4	.6	4.6	.5	1.1	3.0	8.8	4.0	12.7	.5	AA	(D)
	NEW HAMPSHIRE. . . . .	10	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MASSACHUSETTS. . . . .	110	69	28.7	308.1	16.6	31.5	147.3	527.2	318.2	837.2	38.0	FF	(D)
	RHODE ISLAND . . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	CONNECTICUT. . . . .	55	38	9.2	96.4	4.1	8.4	31.4	179.8	75.6	258.2	4.1	9.2	122.0
	MIDDLE ATLANTIC DIVISION . . . . .	488	250	101.3	1 193.4	54.3	104.2	538.2	1 841.6	1 115.7	2 930.9	75.7	145.2	1 935.5
	NEW YORK . . . . .	255	126	46.5	554.5	23.8	45.5	219.2	836.9	438.7	1 253.9	31.9	72.0	925.2
	NEW JERSEY . . . . .	141	80	39.7	461.2	24.0	45.5	267.3	758.8	442.3	1 201.5	29.6	54.2	770.1
	PENNSYLVANIA . . . . .	92	44	15.1	157.7	6.5	13.3	51.7	245.9	234.7	475.5	14.2	18.9	240.1
	NORTH CENTRAL REGION . . . . .	342	165	106.4	1 028.3	66.6	123.2	558.7	1 954.0	1 304.6	3 220.4	96.4	125.8	1 535.3
	EAST NORTH CENTRAL DIVISION. . . .	262	123	82.3	797.9	50.8	92.7	431.8	1 541.9	992.3	2 501.3	77.0	91.7	114.7
	OHIO . . . . .	58	24	12.9	126.6	9.1	16.7	78.6	237.0	163.3	395.1	11.1	14.1	165.5
	INDIANA. . . . .	28	14	16.3	170.9	10.8	20.5	92.9	278.6	169.4	442.1	20.1	FF	(D)
	ILLINOIS . . . . .	108	54	47.3	441.4	27.9	49.5	237.8	927.8	566.7	1 476.3	44.0	FF	(D)
	MICHIGAN . . . . .	46	18	2.4	22.1	1.3	2.7	9.5	47.0	58.2	102.5	.9	3.1	45.1
	WISCONSIN. . . . .	22	13	3.4	36.9	1.7	3.2	13.0	51.4	34.7	85.3	.8	FF	(D)
	WEST NORTH CENTRAL DIVISION. . . .	80	42	24.1	230.4	15.8	30.5	126.9	412.1	312.3	719.2	19.4	34.1	419.4
	MINNESOTA . . . . .	28	14	2.3	16.2	1.5	2.8	8.6	36.4	20.5	55.4	1.4	FF	(D)
	IOWA . . . . .	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MISSOURI . . . . .	22	12	8.0	83.2	4.8	8.9	42.7	177.9	90.5	267.5	9.9	FF	(D)
	NEBRASKA . . . . .	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	55.2
	KANSAS . . . . .	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	SOUTH REGION . . . . .	378	203	108.9	1 112.3	64.6	130.5	523.3	2 039.0	1 331.3	3 304.9	90.3	92.7	1 130.1
	SOUTH ATLANTIC DIVISION. . . . .	205	115	58.4	626.9	30.9	64.6	257.4	1 110.7	694.5	1 763.5	56.9	55.0	674.8
	MARYLAND . . . . .	49	30	21.5	265.7	9.9	22.0	101.7	432.9	299.3	712.8	16.2	24.1	271.9
	VIRGINIA . . . . .	31	15	8.9	87.3	5.1	11.8	34.0	176.6	90.1	253.1	7.3	FF	(D)
	WEST VIRGINIA. . . . .	5	2	8.0	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	NORTH CAROLINA . . . . .	16	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	SOUTH CAROLINA . . . . .	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA. . . . .	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA. . . . .	79	46	16.6	159.0	8.8	17.3	63.7	287.6	148.7	433.5	14.8	13.4	168.1
	EAST SOUTH CENTRAL DIVISION. . . .	43	20	14.6	144.4	10.6	21.3	85.2	265.8	123.0	385.4	10.4	7.2	76.4
	KENTUCKY . . . . .	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.1
	TENNESSEE. . . . .	18	5	5.8	44.3	4.2	8.6	27.9	95.4	48.7	145.4	5.4	FF	(D)
	ALABAMA . . . . .	13	9	7.1	87.9	5.1	10.1	48.9	137.1	47.4	181.4	3.6	EE	(D)
	MISSISSIPPI. . . . .	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST SOUTH CENTRAL DIVISION. . . .	130	68	36.0	341.0	23.1	44.6	180.7	662.4	513.8	1 156.0	23.1	27.8	342.7
	ARKANSAS . . . . .	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	LOUISIANA . . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	OKLAHOMA . . . . .	18	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	72.0
	TEXAS. . . . .	98	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WEST REGION. . . . .	578	293	92.2	1 102.8	47.9	94.8	455.5	1 783.9	1 106.5	2 925.3	72.9	106.4	1 580.0
	MOUNTAIN DIVISION. . . . .	83	40	13.7	131.3	8.6	16.8	67.4	200.8	181.5	369.8	14.9	8.3	119.1
	COLORADO . . . . .	24	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	6.0
	NEW MEXICO . . . . .	12	8	1.7	10.6	1.3	2.7	6.0	26.7	16.6	39.6	(D)	.4	6.0
	ARIZONA. . . . .	24	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	UTAH . . . . .	14	6	2.2	17.4	1.4	2.7	9.1	30.6	26.4	57.2	.4	EE	(D)
	NEVADA . . . . .	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	495	253	78.5	971.6	39.4	78.0	388.2	1 583.1	925.0	2 535.5	58.0	102.1	1 549.4
	WASHINGTON . . . . .	31	11	1.8	17.0	1.1	2.3	8.6	30.9	28.4	55.3	(D)	FF	(D)
	OREGON . . . . .	16	10	1.1	9.5	.8	1.5	5.5	15.1	14.0	28.1	.4	BB	(D)
	CALIFORNIA . . . . .	448	232	75.7	945.1	37.4	74.2	374.1	1 537.2	882.6	2 452.1	(D)	99.0	1 513.6
367	ELECTRONIC COMPONENTS, ACCESS. . .	2 867	1 439	336.0	2 869.3	233.8	461.2	1 559.9	5 305.8	3 468.1	8 825.9	343.4	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 112	601	138.2	1 278.3	89.7	177.5	628.5	2 339.7	1 775.5	4 230.6	131.1	185.2	2 112.4
	NEW ENGLAND DIVISION . . . . .	368	214	41.0	342.6	27.5	54.5	167.8	585.1	389.8	997.2	27.0	62.1	621.2
	MAINE. . . . .	8	5	3.5	20.5	2.9	6.0	13.8	73.2	14.2	79.6	1.3	FF	(D)
	NEW HAMPSHIRE. . . . .	30	20	6.7	50.6	3.8	7.6	19.2	62.4	29.3	90.4	3.0	5.6	45.1
	VERMONT. . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	MASSACHUSETTS. . . . .	210	119	17.8	146.0	13.1	25.4	86.3	264.6	121.1	368.2	12.4	33.6	306.7
	RHODE ISLAND . . . . .	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	16.0
	CONNECTICUT. . . . .	97	56	7.4	58.9	5.5	11.3	35.1	111.4	60.7	173.8	4.2	13.8	130.5
	MIDDLE ATLANTIC DIVISION . . . . .	744	387	97.2	935.7	62.3	123.0	460.6	1 756.9	1 386.4	3 236.6	104.2	123.2	1 491.7
	NEW YORK . . . . .	338	168	47.6	515.9	26.5	54.9	213.6	919.3	587.5	2 014.3	46.0	57.8	693.5
	NEW JERSEY . . . . .	248	126	18.0	147.5	12.3	22.9	77.5	248.6	106.5	353.9	11.0	26.2	293.2
	PENNSYLVANIA . . . . .	158	93	31.5	272.3	23.4	45.2	169.5	589.0	292.4	868.4	47.3	39.2	505.0

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
367	ELECTRONIC COMPONENTS, ACCESSORIES--CONTINUED													
	NORTH CENTRAL REGION . . . . .	604	337	68.7	495.0	54.6	104.9	337.0	925.7	703.4	1 614.9	51.7	87.8	903.2
	EAST NORTH CENTRAL DIVISION. . . . .	474	261	54.8	398.5	44.3	84.8	277.3	745.1	605.9	1 341.4	44.8	72.6	740.4
	OHIO . . . . .	89	44	8.0	63.8	6.6	12.4	44.7	158.8	101.8	257.7	5.1	10.6	134.8
	INDIANA . . . . .	68	44	15.8	116.3	13.5	26.1	87.0	206.9	185.5	388.8	10.1	20.8	205.7
	ILLINOIS . . . . .	219	132	25.4	181.8	19.8	37.8	121.8	309.9	268.9	574.4	27.2	35.8	357.2
	MICHIGAN . . . . .	53	19	2.5	17.3	1.8	3.4	9.2	24.7	25.6	52.2	1.1	1.5	9.7
	WISCONSIN. . . . .	45	22	3.1	19.3	2.6	5.1	14.6	44.8	24.1	68.3	1.3	3.9	33.0
	WEST NORTH CENTRAL DIVISION. . . . .	130	76	13.8	96.5	10.3	20.2	59.7	180.6	97.5	273.5	6.9	15.2	162.8
	MINNESOTA. . . . .	51	27	4.1	37.4	2.8	5.3	21.1	62.1	33.7	93.7	2.2	4.5	63.6
	IDWA . . . . .	15	11	3.6	23.8	3.2	5.9	18.0	49.6	36.7	84.7	1.4	4.4	49.1
	MISSOURI . . . . .	26	15	1.7	10.1	1.4	2.8	6.8	19.0	10.7	29.7	1.2	1.8	13.8
	SOUTH DAKOTA . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	NEBRASKA . . . . .	15	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	22.3
	KANSAS . . . . .	19	10	1.0	5.4	.7	1.3	4.0	11.2	4.2	15.3	.6	EE	(D)
	SOUTH REGION . . . . .	368	177	55.9	433.5	41.4	84.9	262.1	874.1	466.8	1 272.7	69.9	53.9	453.7
	SOUTH ATLANTIC DIVISION. . . . .	198	106	26.3	195.9	18.9	38.0	106.3	402.2	187.7	591.9	29.8	26.7	230.0
	MARYLAND . . . . .	31	15	1.3	8.2	1.0	1.2	5.7	18.2	8.9	26.9	.5	2.9	23.3
	DISTRICT OF COLUMBIA . . . . .	2	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA . . . . .	30	18	4.8	45.7	3.0	6.0	17.4	113.8	35.7	157.6	14.7	4.3	33.3
	WEST VIRGINIA. . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	7.1
	NORTH CAROLINA . . . . .	20	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	57.0
	SOUTH CAROLINA . . . . .	11	9	5.9	34.7	4.8	9.7	24.9	51.8	35.3	89.6	3.0	5.4	42.6
	FLORIDA. . . . .	87	45	9.2	73.6	6.2	12.8	37.7	146.5	74.6	214.8	8.4	6.6	65.2
	EAST SOUTH CENTRAL DIVISION. . . . .	44	23	7.2	49.3	5.9	12.1	35.1	79.1	58.3	137.9	3.2	9.6	83.3
	KENTUCKY . . . . .	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	TENNESSEE. . . . .	16	8	1.1	5.1	.9	1.6	3.5	9.6	9.9	19.0	1.4	1.8	12.6
	ALABAMA. . . . .	16	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MISSISSIPPI. . . . .	5	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	WEST SOUTH CENTRAL DIVISION. . . . .	126	48	22.4	188.3	16.5	34.8	120.8	392.8	160.8	542.9	36.9	17.7	140.3
	ARKANSAS . . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	OKLAHOMA . . . . .	24	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.5
	TEXAS. . . . .	94	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WEST REGION. . . . .	784	325	73.7	668.6	48.5	94.7	332.6	1 178.6	589.8	1 728.4	91.3	76.5	889.8
	MOUNTAIN DIVISION. . . . .	87	34	18.8	151.0	11.7	21.9	69.2	246.6	128.0	362.4	16.9	15.7	171.4
	IDAHO. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	COLORADO . . . . .	25	10	1.0	5.4	.9	1.6	3.5	9.0	5.1	13.8	.5	1.2	10.0
	NEW MEXICO . . . . .	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	ARIZONA. . . . .	39	16	16.2	136.4	9.7	18.0	59.5	218.1	113.7	320.6	15.5	13.0	147.3
	UTAH . . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	13.2
	PACIFIC DIVISION . . . . .	697	291	54.9	517.6	36.8	72.9	265.4	932.0	461.7	1 366.0	74.4	60.8	708.5
	WASHINGTON . . . . .	19	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	OREGON . . . . .	14	8	.8	6.1	.7	1.3	3.9	10.4	2.9	.3	.3	EE	(D)
	CALIFORNIA . . . . .	663	280	53.9	516.1	36.0	71.3	260.6	919.2	457.4	1 349.4	(D)	59.4	701.0
369	MISC. ELEC. EQUIPMENT, SUPPLIES. . . . .	1 652	540	120.4	1 121.4	94.7	189.1	797.3	2 497.6	1 895.4	4 315.0	93.5	(NA)	(NA)
	NORTHEAST REGION . . . . .	508	165	25.6	202.3	19.2	38.2	135.1	454.6	373.2	819.6	20.3	24.7	296.6
	NEW ENGLAND DIVISION . . . . .	159	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.2	89.7
	MAINE. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	NEW HAMPSHIRE. . . . .	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	VERMONT. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	MASSACHUSETTS. . . . .	86	24	3.4	28.5	2.6	5.0	17.1	63.2	53.3	113.8	1.6	3.7	40.0
	RHODE ISLAND . . . . .	11	6	1.2	8.2	.9	1.7	5.3	18.0	14.1	31.6	.6	EE	(D)
	CONNECTICUT. . . . .	50	11	1.8	14.1	1.3	2.4	8.0	24.3	25.5	49.9	1.9	1.8	21.0
	MIDDLE ATLANTIC DIVISION . . . . .	349	117	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.6	206.9
	NEW YORK . . . . .	179	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	72.2
	NEW JERSEY . . . . .	94	26	3.7	29.4	2.8	5.7	20.7	65.3	51.2	113.9	3.4	5.0	68.8
	PENNSYLVANIA . . . . .	76	34	5.4	47.0	4.2	8.4	34.7	118.9	92.9	209.0	4.0	5.5	65.9
	NORTH CENTRAL REGION . . . . .	450	196	68.8	704.4	55.0	109.7	521.7	1 517.8	1 101.6	2 577.3	42.9	65.1	956.7
	EAST NORTH CENTRAL DIVISION. . . . .	349	153	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	57.0	830.3
	OHIO . . . . .	72	34	13.2	117.6	10.1	19.4	78.7	238.9	162.0	391.1	8.2	10.4	170.6
	INDIANA. . . . .	52	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	ILLINOIS . . . . .	109	38	6.6	52.4	5.1	9.6	33.5	115.5	118.2	231.0	4.0	7.7	101.4
	MICHIGAN . . . . .	68	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.1	153.2
	WISCONSIN. . . . .	48	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	WEST NORTH CENTRAL DIVISION. . . . .	101	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	72.9
	MINNESOTA. . . . .	33	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.7
	IDWA . . . . .	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MISSOURI . . . . .	38	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	18.3
	NEBRASKA . . . . .	6	3	.2	1.6	.2	.3	1.1	3.3	3.3	6.5	.1	(NA)	(NA)
	KANSAS . . . . .	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	SOUTH REGION . . . . .	313	107	19.0	148.8	14.8	30.0	99.9	378.3	302.7	661.6	21.6	11.4	163.8
	SOUTH ATLANTIC DIVISION. . . . .	163	51	10.0	80.5	7.6	15.3	51.9	234.4	157.1	381.6	9.8	6.9	110.4
	DELAWARE . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	MARYLAND . . . . .	18	7	.6	4.3	.5	1.0	3.0	6.3	4.9	11.0	.4	EE	(D)
	VIRGINIA . . . . .	19	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	25	12	2.8	21.5	2.3	4.7	16.0	82.9	51.5	132.8	1.9	88	(D)
	SOUTH CAROLINA . . . . .	8	6	1.1	8.2	.9	2.0	5.9	26.7	22.0	47.6	2.3	.9	9.7
	GEORGIA. . . . .	19	5	1.0	8.8	.8	1.7	6.9	23.7	22.4	45.6	1.1	.7	9.4
	FLORIDA. . . . .	67	14	3.8	31.8	2.5	5.0	16.1	83.8	39.6	117.6	3.4	1.3	14.2
	EAST SOUTH CENTRAL DIVISION. . . . .	44	21	4.2	28.3	3.7	7.5	21.6	58.2	64.9	120.5	2.8	2.5	27.8
	KENTUCKY . . . . .	11	4	1.3	10.9	1.2	2.4	7.9	14.5	22.0	35.8	.8	.5	5.0
	TENNESSEE. . . . .	19	9	1.5	9.3	1.3	2.5	7.3	23.1	24.9	47.2	1.4	.9	13.1
	ALABAMA. . . . .	7	4	1.0	5.9	.8	1.6	4.4	15.5	11.0	25.1	.3	CC	(D)
	MISSISSIPPI. . . . .	7	4	.4	2.3	.4	1.0	2.0	5.1	7.1	12.4	.2	AA	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
369	MISC. ELEC. EQUIPMENT, SUPPLIES-- CONTINUEO													
	SOUTH REGION--CONTINUEO													
	WEST SOUTH CENTRAL DIVISION, . . . .	106	35	4.7	40.0	3.5	7.3	26.4	85.7	80.8	159.6	8.9	2.0	25.5
	ARKANSAS . . . . .	6	4	.2	1.1	.1	.3	.8	2.5	2.0	4.4	.1	(NA)	(NA)
	LOUISIANA . . . . .	8	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OKLAHOMA . . . . .	12	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	TEXAS, . . . . .	80	26	3.8	31.7	2.8	5.9	20.3	69.9	60.7	122.9	8.5	1.7	22.2
	WEST REGION, . . . . .	381	72	7.8	65.9	5.6	11.1	40.6	146.9	117.9	256.5	8.8	5.9	76.7
	MOUNTAIN DIVISION, . . . . .	54	12	.9	6.3	.6	1.2	3.6	15.7	11.0	26.1	1.2	CC	(0)
	COLORADO . . . . .	19	8	.5	3.9	.3	.7	2.1	10.2	6.8	16.5	1.0	.3	3.3
	NEVADA . . . . .	8	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION	327	60	6.9	59.6	5.0	9.9	37.1	131.2	106.9	230.4	7.6	FF	(0)
	WASHINGTON . . . . .	26	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OREGON . . . . .	27	5	.6	5.1	.4	.8	3.3	10.7	12.0	22.1	.5	.4	5.4
	CALIFORNIA . . . . .	270	52	6.1	52.1	4.4	8.8	32.8	114.8	91.4	199.4	(0)	4.9	64.9

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

<sup>2</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Electric and electronic equipment (SIC 36)	Electric distributing equipment (SIC 361)	Electrical industrial apparatus (SIC 362)	Household appliances (SIC 363)	Electric lighting and wiring equipment (SIC 364)	Radio and TV receiving equipment (SIC 365)	Communi- cation equipment (SIC 366)	Electronic components and accessories (SIC 367)	Miscel- laneous electrical equipment and supplies (SIC 369)
ESTABLISHMENTS, TOTAL, . . . . .NUMBER	12 270	784	1 510	645	1 897	939	1 976	2 867	1 652
WITH 1 TO 19 EMPLOYEES, . . . . .	6 538	365	791	287	954	656	945	1 428	1 112
WITH 20 TO 99 EMPLOYEES, . . . . .	3 198	227	375	131	579	161	575	843	707
WITH 100 EMPLOYEES OR MORE, . . . . .	2 534	192	344	227	364	122	456	596	233
ALL EMPLOYEES, AVERAGE FOR YEAR, . . . . .1,000	1 661.3	116.0	188.1	163.0	177.1	106.9	453.6	335.8	120.4
PAYROLL FOR YEAR, ALL EMPLOYEES, . . . . .MILLION DOLLARS	15 189.0	1 040.0	1 665.1	1 369.2	1 413.7	797.9	4 912.1	2 869.3	1 121.4
PRODUCTION WORKERS:									
AVERAGE FOR YEAR, . . . . .1,000	1 160.0	85.3	134.4	130.9	138.6	85.7	256.6	233.9	94.7
JANUARY-MARCH, . . . . .	1 125.0	83.4	129.9	127.3	136.2	79.6	253.0	224.6	92.2
APRIL-JUNE, . . . . .	1 140.7	84.7	132.3	130.8	137.8	82.5	252.6	227.5	92.3
JULY-SEPTEMBER, . . . . .	1 165.0	86.0	135.2	130.1	140.4	87.6	256.3	236.0	93.4
OCTOBER-DECEMBER, . . . . .	1 211.5	87.1	140.7	135.6	145.1	93.0	264.4	247.1	98.9
MAN-HOURS, . . . . .MILLIONS	2 273.3	168.4	269.6	254.9	270.2	163.2	497.3	459.1	189.1
JANUARY-MARCH, . . . . .	655.4	41.2	64.8	62.2	65.6	37.9	125.9	111.2	46.6
APRIL-JUNE, . . . . .	573.2	43.1	68.3	65.5	68.5	39.7	125.5	115.3	47.4
JULY-SEPTEMBER, . . . . .	547.9	40.5	66.4	60.5	65.6	40.3	117.5	111.7	45.3
OCTOBER-DECEMBER, . . . . .	598.4	43.7	70.1	66.6	71.5	45.3	128.4	123.7	49.8
WAGES, . . . . .MILLION DOLLARS	8 816.4	674.6	1 036.8	980.3	946.9	553.7	2 269.5	1 559.9	797.3
COST OF MATERIALS, ETC., TOTAL, . . . . .	23 301.3	1 544.7	2 266.6	3 480.6	2 430.5	2 906.9	5 308.4	3 468.1	1 895.4
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED, . . . . .	20 859.5	1 435.5	2 058.2	3 140.5	2 224.2	2 366.6	4 838.9	3 033.5	1 747.6
COST OF REALES, . . . . .	1 622.4	67.8	110.1	272.1	119.6	483.4	231.3	239.7	98.5
FUELS CONSUMED, . . . . .	131.1	9.2	23.4	21.8	19.4	5.8	19.1	21.0	11.4
PURCHASED ELECTRIC ENERGY, . . . . .	295.6	21.6	44.4	30.6	31.6	12.5	63.3	66.6	24.9
CONTRACT WORK, . . . . .	407.2	10.6	30.6	15.6	35.8	38.5	155.8	107.3	13.0
VALUE OF SHIPMENTS, INCLUDING REALES, . . . . .	53 394.0	3 585.4	5 402.3	6 940.3	5 650.8	5 007.8	13 665.0	8 825.9	4 315.0
VALUE OF REALES, . . . . .	2 275.1	85.8	137.4	365.3	164.0	719.0	331.1	333.8	138.7
VALUE ADDED BY MANUFACTURE, . . . . .	30 558.2	2 060.3	3 217.9	3 563.7	3 276.8	2 183.4	8 453.1	5 305.8	2 497.6
MANUFACTURERS' INVENTORIES:									
BEGINNING OF YEAR, TOTAL, . . . . .	9 225.9	653.1	1 142.9	1 078.4	864.3	636.5	2 865.6	1 514.3	564.2
FINISHED PRODUCTS, . . . . .	2 384.0	151.0	260.7	531.6	343.2	263.0	355.7	310.0	167.9
WORK IN PROCESS, . . . . .	4 301.5	283.7	442.7	238.0	227.4	165.4	1 913.2	837.4	195.0
MATERIALS, SUPPLIES, FUEL, ETC., . . . . .	2 539.5	218.4	346.4	308.8	293.7	208.1	596.6	366.9	201.4
END OF YEAR, TOTAL, . . . . .	9 725.5	671.7	1 142.9	1 164.5	949.7	732.4	2 937.3	1 495.4	631.8
FINISHED PRODUCTS, . . . . .	2 575.0	140.0	277.6	585.2	365.6	297.1	409.9	306.7	192.4
WORK IN PROCESS, . . . . .	4 451.5	306.6	494.5	249.4	254.1	207.0	1 926.8	777.3	237.6
MATERIALS, SUPPLIES, FUEL, ETC., . . . . .	2 698.8	225.1	370.8	330.8	330.6	228.3	600.6	411.4	201.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL, . . . . .	1 554.4	68.3	157.7	159.3	177.8	84.2	422.2	389.0	96.8
NEW PLANT AND EQUIPMENT, TOTAL, . . . . .	1 417.5	63.7	148.3	151.8	159.7	75.5	381.4	344.4	93.5
NEW STRUCTURES AND ADDITIONS TO PLANT, . . . . .	295.4	12.8	35.6	33.9	39.1	25.1	72.1	56.8	20.0
NEW MACHINERY AND EQUIPMENT, . . . . .	1 122.2	50.9	112.8	117.9	120.7	50.5	309.3	287.5	73.5
USED PLANT AND EQUIPMENT, . . . . .	136.9	4.6	9.4	7.4	18.1	8.7	40.8	44.7	3.3

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





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# Electrical Measurement and Distribution Equipment

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# EXPLANATORY TEXT

## ELECTRICAL MEASUREMENT AND DISTRIBUTION EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

3612—Power, Distribution, and Specialty Transformers\*  
3613—Switchgear and Switchboard Apparatus  
3621—Motors and Generators  
3622—Industrial Controls  
3623—Welding Apparatus, Electric  
3624—Carbon and Graphite Products  
3629—Electrical Industrial Apparatus, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry, and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3612.—TRANSFORMERS (Short Title)

This industry comprises establishments primarily engaged in manufacturing power, distribution, instrument, and specialty transformers.

Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils, or chokes are classified in industry 3677, and resistance welder transformers in industry 3623.

The classification of establishments for which data are tabulated in this industry is based upon the definitions and

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\*Note that the "short title" for this industry is used throughout the report.

coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system. Instrument transformers, previously classified in industry 3611, are now included in this industry.

For a detailed list of products of industry 3612, refer to table 6A, product codes 36122 02 to 36122 38.

Value of shipments and other receipts of the Transformers Industry in 1972 totaled \$1,462 million. This included shipments of transformers (primary products) valued at \$1,387 million, shipments of other products (secondary products) valued at \$55 million, and miscellaneous receipts of \$19 million.

Shipments of transformers (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent.

Shipments of transformers (primary products) from establishments classified in industry 3612 in 1972 represented 97 percent (coverage ratio) of these products valued at \$1,436 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3612, these establishments accounted for 1.3 percent of value of shipments.

### INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARD APPARATUS

This industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, powerfuse mountings, and similar switchboard apparatus and supplies.

Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those



manufacturing current-carrying wiring devices in industry 3643.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3613, refer to table 6A, product codes 36131 11 to 36137 03.

Value of shipments and other receipts of the Switchgear and Switchboard Apparatus Industry in 1972 totaled \$2,115 million. This included shipments of switchgear and switchboard apparatus (primary products) valued at \$1,840 million, shipments of other products (secondary products) valued at \$183 million, and miscellaneous receipts (mainly resales) of \$91 million.

Shipments of switchgear and switchboard apparatus (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent. Secondary products shipped by this industry in 1972 consisted mainly of industrial controls (\$68 million).

Shipments of switchgear and switchboard apparatus (primary products) from establishments classified in industry 3613 in 1972 represented 89 percent (coverage ratio) of these products valued at \$2,059 million shipped by all industries. In 1967, the coverage ratio was 90 percent. Other industries shipping switchgear and switchboard apparatus consisted mainly of industry 3622, Industrial Controls, (\$77 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3613, these establishments accounted for 2.0 percent of value of shipments.

#### INDUSTRY 3621.—MOTORS AND GENERATORS

This industry comprises establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline, electric, and oil-electric buses and trucks.

Establishments primarily engaged in manufacturing turbo-generators are classified in industry 3511, and starting motors and battery-charging generators for internal combustion engines are classified in industry 3694.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3621, refer to table 6A, product codes 36211 01 to 36219 11.

Value of shipments and other receipts of the Motors and Generators Industry in 1972 totaled \$2,516 million. This included shipments of motors and generators (primary products) valued at \$2,145 million, shipments of other products (secondary products) valued at \$216 million, and miscellaneous receipts of \$155 million.

Shipments of motors and generators (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent.

Shipments of motors and generators (primary products) from establishments classified in industry 3621 in 1972 represented 81 percent (coverage ratio) of these products valued at \$2,636 million shipped by all industries. In 1967, the coverage ratio was 83 percent. Other industries shipping motors and generators consisted mainly of industry 3519 (\$85 million) and industry 3694 (\$81 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3621, these establishments accounted for 1.5 percent of value of shipments.

#### INDUSTRY 3622.—INDUSTRIAL CONTROLS

This industry comprises establishments primarily engaged in manufacturing motor starters and controllers, control accessories, electronic controls, and other industrial controls.

Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822 and industrial process instruments in industry 3823.

The classification of establishments for which data are tabulated in this report is based upon the definitions and

coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3622, refer to table 6A, product codes 36220 12 to 36220 99.

Value of shipments and other receipts of the Industrial Controls Industry in 1972 totaled \$1,373 million. This included shipments of industrial controls (primary products) valued at \$1,044 million, shipments of other products (secondary products) valued at \$271 million, and miscellaneous receipts (mainly resales) of \$58 million.

Shipments of industrial controls (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of switchgear and switchboard apparatus (\$76.9 million).

Shipments of industrial controls (primary products) from establishments classified in industry 3622 in 1972 represented 84 percent (coverage ratio) of these products valued at \$1,246 million shipped by all industries. In 1967, the coverage ratio was 81 percent. Other industries shipping industrial controls consisted mainly of industry 3613, Switchgear and Switchboard Apparatus, (\$68 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3622, these establishments accounted for 4.0 percent of value of shipments.

#### INDUSTRY 3623.—WELDING APPARATUS, ELECTRIC

This industry comprises establishments primarily engaged in manufacturing electric welding apparatus and accessories.

This industry also includes establishments primarily engaged in coating welding wire from purchased wire or from wire drawn in the same establishment.

Establishments primarily engaged in manufacturing gas welding apparatus are classified in industry 3549, and laser, electron beam, and ultrasonic welding machines and equipment in industry 3662.

The classification of establishments for which data are tabulated in this report is based upon the definitions and

coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3623, refer to table 6A, product codes 36231 11 to 36233 81.

Value of shipments and other receipts of the Welding Apparatus, Electric, Industry in 1972 totaled \$660 million. This included shipments of electric welding apparatus (primary products) valued at \$524 million, shipments of other products (secondary products) valued at \$98 million, and miscellaneous receipts of \$37 million.

Shipments of electric welding apparatus (primary products) in 1972 represented 84 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent.

Shipments of electric welding apparatus (primary products) from establishments classified in industry 3623 in 1972 represented 92 percent (coverage ratio) of these products valued at \$570 million shipped by all industries. In 1967, the coverage ratio was 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3623, these establishments accounted for 2.7 percent of value of shipments.

#### INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3624, refer to table 6A, product codes 36241 52 to 36249 89.



Value of shipments and other receipts of the Carbon and Graphite Products Industry in 1972 totaled \$377 million. This included shipments of carbon and graphite products (primary products) valued at \$329 million, and shipments of other products (secondary products) and miscellaneous receipts at \$48.8 million.

Shipments of carbon and graphite products (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent.

Shipments of carbon and graphite products (primary products) from establishments classified in industry 3624 in 1972 represented 98 percent (coverage ratio) of these products valued at \$336 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3624, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3629.—ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as blasting machines, fixed and variable capacitors, condensers, and rectifiers for industrial applications.

Establishments primarily engaged in manufacturing condensers, capacitors, and rectifiers for electronic end products

are classified in SIC group 367, Electronic Components and Accessories.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3629, refer to table 6A, product codes 36291 11 to 36293 98.

Value of shipments and other receipts of the Electrical Industrial Apparatus, N.E.C., Industry in 1972 totaled \$450 million. This included shipments of electrical industrial apparatus, n.e.c., (primary products) valued at \$355 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts of \$32 million.

Shipments of electrical industrial products, n.e.c., (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 84 percent.

Shipments of electrical industrial apparatus, n.e.c., (primary products) from establishments classified in industry 3629 in 1972 represented 80 percent (coverage ratio) of these products valued at \$443 million shipped by all industries. In 1967, the coverage ratio was 67 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3629, these establishments accounted for 6.8 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3612.--TRANSFORMERS															
1972 Census.....	216	136	45.9	410.4	35.2	70.1	282.0	759.9	697.9	1,461.9	25.7	(NA)	258.6	96	97
1971 ASM.....	(NA)	(NA)	45.7	389.1	34.1	66.6	256.9	723.7	644.6	1,376.0	27.2	514.1	265.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	49.3	394.4	37.6	73.9	265.6	767.2	658.8	1,392.7	53.3	497.8	279.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	47.3	363.4	35.7	72.5	238.5	743.1	592.3	1,352.6	46.4	436.7	250.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	47.6	349.8	35.5	72.9	230.9	750.6	559.8	1,315.9	44.2	467.5	258.8	(NA)	(NA)
1967 Census.....	190	122	45.6	317.6	34.0	68.5	210.1	678.9	531.8	1,189.2	52.8	399.5	240.3	95	98
1966 ASM.....	(NA)	(NA)	41.5	281.4	30.6	61.5	183.0	584.4	468.6	1,053.0	40.8	(NA)	204.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	37.3	252.6	27.1	56.5	161.6	516.7	423.4	921.8	19.4	(NA)	187.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	35.1	227.2	25.6	52.4	145.1	442.7	375.0	805.3	13.8	301.4	153.4	(NA)	(NA)
1963 Census.....	177	99	33.4	209.5	23.6	46.9	129.6	381.5	337.0	722.9	13.2	298.5	134.9	92	94
1962 ASM.....	(NA)	(NA)	35.1	215.2	24.6	49.1	133.9	400.8	345.8	740.4	22.6	289.4	143.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	34.9	207.4	23.5	46.2	128.1	402.3	303.8	708.1	40.5	(NA)	127.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	36.6	211.9	24.7	48.6	129.2	422.5	308.4	718.3	14.3	(NA)	132.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	35.5	201.7	24.0	48.0	125.9	429.1	296.9	721.6	14.9	(NA)	127.4	(NA)	(NA)
1958 Census.....	175	82	34.6	186.4	22.6	45.1	108.6	364.2	256.9	642.3	13.8	(NA)	115.8	94	93
INDUSTRY 3613.--SWITCHGEAR AND SWITCHBOARD APPARATUS															
1972 Census.....	568	283	68.9	615.4	49.5	96.8	387.3	1,298.7	840.8	2,115.0	36.8	(NA)	411.2	91	89
1971 ASM.....	(NA)	(NA)	65.6	566.0	46.5	92.3	353.0	1,212.6	774.8	1,997.8	34.9	489.4	401.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	67.4	546.1	48.0	95.7	343.3	1,159.5	748.1	1,886.9	38.7	456.2	396.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	67.5	513.8	48.8	98.3	321.1	1,137.3	713.3	1,831.5	46.0	425.3	377.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	64.7	465.5	46.4	93.4	289.2	1,010.8	665.4	1,669.1	41.7	394.9	326.2	(NA)	(NA)
1967 Census.....	482	283	68.5	488.0	49.7	100.5	304.9	1,030.3	669.7	1,690.0	39.1	392.5	338.2	89	90
1966 ASM.....	(NA)	(NA)	64.7	449.3	46.8	96.8	278.6	972.1	607.7	1,549.0	32.1	(NA)	310.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	57.6	386.2	40.7	83.5	236.1	797.2	513.4	1,299.3	26.0	(NA)	254.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	55.9	366.6	38.0	79.3	217.4	706.1	489.9	1,175.4	20.6	302.9	238.1	(NA)	(NA)
1963 Census.....	400	214	54.0	338.9	38.1	76.9	204.9	647.8	452.2	1,093.7	18.2	283.8	210.6	87	89
1962 ASM.....	(NA)	(NA)	59.6	356.3	43.4	84.1	212.0	654.8	458.5	1,108.4	16.6	271.9	224.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	57.1	336.3	41.1	81.0	197.8	606.6	430.4	1,039.3	15.6	(NA)	216.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	57.4	325.9	41.9	82.9	194.5	636.6	422.0	1,038.8	24.4	(NA)	204.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	57.1	319.3	41.7	82.5	190.2	638.8	429.5	1,047.6	*35.5	(NA)	195.7	(NA)	(NA)
1958 Census.....	402	203	52.9	283.2	36.3	72.8	170.5	555.0	376.0	962.6	17.8	(NA)	164.4	80	90
INDUSTRY 3621.--MOTORS AND GENERATORS															
1972 Census.....	426	258	90.6	767.1	69.3	139.5	517.6	1,483.9	1,061.8	2,516.0	59.0	(NA)	468.7	91	81
1971 ASM.....	(NA)	(NA)	93.7	783.6	70.1	140.0	516.2	1,389.5	1,059.3	2,472.0	104.7	1,077.0	483.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	103.9	814.8	78.3	154.2	543.8	1,459.9	1,061.4	2,468.9	103.2	971.9	495.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	109.4	820.3	82.7	169.0	555.5	1,472.1	1,079.5	2,541.8	100.1	880.1	486.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	109.4	780.0	82.6	168.0	522.5	1,436.3	1,005.9	2,436.0	94.1	828.7	463.1	(NA)	(NA)
1967 Census.....	409	279	112.8	764.6	85.3	172.3	514.4	1,430.8	977.5	2,402.3	102.5	761.5	457.4	83	83
1966 ASM.....	(NA)	(NA)	112.3	730.0	87.2	174.3	494.3	1,365.7	968.7	2,288.8	84.3	(NA)	445.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	102.0	662.2	76.7	156.8	448.3	1,178.8	868.5	2,043.8	64.8	(NA)	375.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	94.9	609.8	69.2	141.9	392.8	1,097.8	743.8	1,820.0	42.4	574.4	348.6	(NA)	(NA)
1963 Census.....	384	244	94.2	583.2	68.7	140.2	378.8	993.2	715.2	1,709.8	35.8	552.4	321.5	81	84
1962 ASM.....	(NA)	(NA)	94.0	576.0	67.7	135.7	361.8	974.8	697.8	1,657.8	34.8	526.8	313.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	95.9	570.5	67.7	133.3	349.2	933.1	640.9	1,567.3	29.4	(NA)	305.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	101.7	581.9	72.3	141.4	358.9	966.6	676.1	1,647.8	37.2	(NA)	300.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	99.6	557.6	71.3	142.8	350.3	975.8	663.8	1,614.7	31.9	(NA)	319.3	(NA)	(NA)
1958 Census.....	378	237	93.5	488.9	64.8	127.8	303.8	813.1	545.5	1,392.6	28.3	(NA)	272.5	83	85
INDUSTRY 3622.--INDUSTRIAL CONTROLS															
1972 Census.....	579	207	51.1	451.8	32.1	64.0	249.0	876.1	534.7	1,373.0	45.8	(NA)	322.4	79	84
1971 ASM.....	(NA)	(NA)	45.1	395.1	29.0	55.2	213.9	738.8	408.0	1,156.9	27.1	395.9	246.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	48.1	394.9	30.8	59.6	211.8	768.9	407.7	1,170.8	31.2	387.6	264.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	55.2	425.2	36.7	73.1	237.4	814.1	428.8	1,228.2	67.4	414.1	272.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	51.9	373.6	27.8	66.3	207.9	721.9	390.6	1,121.4	*50.1	326.9	239.8	(NA)	(NA)
1967 Census.....	476	169	50.4	350.9	34.8	69.6	210.7	720.9	388.6	1,102.8	34.3	296.9	224.2	83	81
1966 ASM.....	(NA)	(NA)	45.9	325.1	31.5	66.0	195.7	718.5	368.3	1,049.0	31.9	(NA)	221.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	39.4	268.8	26.8	55.5	162.6	582.6	284.9	846.3	22.6	(NA)	166.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	34.9	235.2	24.2	48.0	139.2	502.8	246.2	732.5	19.4	205.0	142.5	(NA)	(NA)
1963 Census.....	427	118	33.0	214.6	22.8	44.9	125.4	450.5	207.6	648.7	15.4	189.1	118.9	79	79
1962 ASM.....	(NA)	(NA)	32.9	205.3	21.8	43.9	117.8	414.8	186.5	593.3	16.3	176.2	105.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	31.6	192.3	20.3	40.3	106.0	388.2	171.1	548.3	17.7	(NA)	93.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	30.5	179.0	20.0	39.5	101.4	373.2	162.7	532.4	18.4	(NA)	90.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	28.2	165.6	19.2	38.7	97.9	349.8	153.0	496.7	9.8	(NA)	80.0	(NA)	(NA)
1958 Census.....	216	75	27.1	145.3	17.3	33.7	81.8	281.9	125.0	413.2	7.6	(NA)	70.1	79	70

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3623.--WELDING APPARATUS, ELECTRIC														
1972 Census.....	166	80	15.5	173.9	9.8	20.9	102.5	353.5	314.2	659.6	11.4	(NA)	149.3	84	92
1971 ASM.....	(NA)	(NA)	12.7	140.3	7.6	16.5	75.8	261.5	243.7	503.6	5.0	171.6	123.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.3	143.9	9.0	18.6	79.7	255.7	251.6	509.8	10.0	169.2	115.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	15.0	146.6	9.8	20.6	88.7	276.4	250.6	526.1	*16.3	137.0	102.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	13.8	128.4	9.4	19.2	77.1	251.9	226.8	486.4	15.4	132.2	91.4	(NA)	(NA)
1967 Census.....	147	92	13.7	118.4	9.4	19.8	72.9	265.3	237.8	493.3	18.1	129.5	98.5	91	94
1966 ASM.....	(NA)	(NA)	14.4	116.4	10.1	21.7	73.4	264.5	282.5	533.8	9.9	(NA)	102.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.6	103.5	8.5	19.5	62.8	210.8	238.4	446.5	11.1	(NA)	80.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	11.4	91.9	7.8	18.1	57.8	192.6	201.4	389.4	6.8	88.8	71.5	(NA)	(NA)
1963 Census.....	149	75	9.6	72.1	6.6	14.1	44.6	162.4	168.6	330.2	5.4	83.3	56.7	93	89
1962 ASM.....	(NA)	(NA)	10.1	75.2	6.5	13.8	40.8	135.5	171.7	308.6	4.7	80.7	62.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	10.7	73.3	6.9	13.8	38.9	129.5	163.4	294.4	*7.5	(NA)	61.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.0	75.9	7.3	14.5	40.6	136.5	165.6	304.2	4.5	(NA)	60.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.2	70.1	6.9	14.3	40.0	133.5	164.7	297.4	3.8	(NA)	59.8	(NA)	(NA)
1958 Census.....	135	70	9.9	60.8	6.4	12.7	33.0	112.7	135.2	247.7	4.3	(NA)	51.7	93	92
	INDUSTRY 3624.--CARBON AND GRAPHITE PRODUCTS														
1972 Census.....	72	44	11.3	99.6	8.6	16.7	70.9	217.4	158.2	377.4	20.2	(NA)	98.4	95	98
1971 ASM.....	(NA)	(NA)	11.1	92.7	8.4	16.5	66.0	218.7	144.2	359.0	17.6	329.5	91.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	12.0	96.4	9.2	18.5	69.4	245.5	139.6	372.0	15.4	314.7	88.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	11.3	86.3	8.8	17.2	62.1	207.5	123.5	333.4	15.6	288.5	72.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	11.3	79.7	8.7	17.2	56.9	182.5	113.7	293.7	22.5	281.5	71.3	(NA)	(NA)
1967 Census.....	65	42	11.9	82.8	9.1	18.5	57.8	186.3	117.8	296.4	41.3	263.8	69.4	96	96
1966 ASM.....	(NA)	(NA)	10.8	73.9	8.4	17.0	51.7	175.1	112.1	283.2	21.0	(NA)	61.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	10.3	68.3	8.0	16.5	48.6	168.0	100.9	267.2	15.5	(NA)	57.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	10.9	70.0	8.3	16.9	48.8	152.5	96.0	245.2	12.5	200.0	53.8	(NA)	(NA)
1963 ASM.....	53	40	10.0	62.0	8.0	16.1	44.1	141.4	84.8	226.9	11.4	185.3	50.2	93	96
1962 ASM.....	(NA)	(NA)	9.7	56.5	7.3	14.6	38.0	128.4	70.1	196.5	10.9	175.0	43.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	9.2	52.3	6.9	13.5	34.9	113.9	66.3	182.9	5.5	(NA)	40.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	9.6	52.8	7.3	14.1	35.8	120.8	66.7	184.1	7.0	(NA)	43.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	9.9	53.6	7.7	15.4	37.4	118.1	70.2	193.1	*5.8	(NA)	42.4	(NA)	(NA)
1958 Census.....	46	35	8.9	45.6	6.6	13.0	30.6	102.5	59.0	154.9	11.1	(NA)	46.9	97	95
	INDUSTRY 3629.--ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.														
1972 Census.....	259	122	20.2	165.4	13.5	26.1	89.6	270.8	187.7	450.5	11.2	(NA)	99.3	85	80
1971 ASM.....	(NA)	(NA)	20.5	158.7	13.4	25.6	79.3	276.3	151.2	438.3	10.6	160.9	89.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	19.0	131.5	14.2	27.1	82.1	245.1	167.2	409.9	9.6	119.0	94.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	20.5	140.5	15.3	30.4	88.4	259.2	189.9	445.6	10.1	119.7	91.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	20.2	129.2	15.4	29.9	84.6	253.1	179.6	428.6	10.3	112.3	85.8	(NA)	(NA)
1967 Census.....	219	123	17.9	103.7	14.0	27.4	69.2	188.3	141.3	328.8	12.3	102.1	71.3	84	67
1966 ASM.....	(NA)	(NA)	20.5	112.8	16.4	31.6	76.0	212.1	164.0	369.4	13.8	(NA)	72.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	16.3	87.8	12.6	25.4	57.3	154.7	134.7	288.2	8.0	(NA)	51.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.5	76.0	11.2	21.8	49.3	134.5	103.8	242.8	4.2	56.9	40.9	(NA)	(NA)
1963 Census.....	231	109	14.0	73.0	10.9	21.0	47.7	141.6	100.1	238.3	4.0	53.5	42.9	80	72
1962 ASM.....	(NA)	(NA)	20.6	92.3	15.6	30.0	56.0	159.0	112.5	270.8	6.7	50.0	48.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	18.1	79.9	13.7	25.9	50.7	142.8	94.8	236.3	7.2	(NA)	41.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	19.9	91.0	15.3	28.5	55.7	149.9	112.0	261.4	8.2	(NA)	44.8	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	20.0	95.2	15.2	30.0	59.1	169.1	116.0	282.1	7.8	(NA)	52.5	(NA)	(NA)
1958 Census.....	286	111	16.8	78.6	11.9	23.6	47.0	137.5	93.1	228.9	8.5	(NA)	45.5	71	73

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3612	Industry 3613	Industry 3621	Industry 3622	Industry 3623	Industry 3624	Industry 3629
1972.....	168	463	324	546	154	58	245
1967.....	150	398	320	456	133	49	212
1963.....	144	338	316	421	133	40	226

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual men-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3612.--TRANSFORMERS											
1972 Census.....	8,941	(NA)	77	1,991	4.02	.48	.76	(NA)	16,556	54	10.84
1971 ASM.....	8,514	11,249	75	1,953	3.86	.47	.75	.37	15,836	54	10.87
1970 ASM.....	8,000	10,097	76	1,965	3.59	.47	.76	.36	15,562	51	10.38
1969 ASM.....	7,683	9,230	75	2,031	3.29	.44	.71	.32	15,710	49	10.25
1968 ASM.....	7,349	9,820	75	2,054	3.17	.43	.69	.36	15,769	47	10.30
1967 Census.....	6,962	8,760	75	2,020	3.07	.45	.71	.34	14,884	47	9.91
1966 ASM.....	6,779	(NA)	74	2,009	2.97	.45	.71	(NA)	14,078	48	9.50
1965 ASM.....	6,765	(NA)	73	2,086	2.86	.46	.73	(NA)	13,838	49	9.15
1964 ASM.....	6,466	8,590	73	2,047	2.77	.47	.75	.37	12,600	51	8.46
1963 Census.....	6,279	8,940	71	1,983	2.77	.47	.76	.41	11,435	55	8.14
1962 ASM.....	6,136	8,250	70	1,996	2.73	.47	.76	.39	11,426	54	8.17
1961 ASM.....	5,949	(NA)	67	1,963	2.77	.43	.72	(NA)	11,540	52	8.71
1960 ASM.....	5,787	(NA)	68	1,966	2.66	.43	.72	(NA)	11,541	50	8.69
1959 ASM.....	5,680	(NA)	68	1,995	2.62	.41	.69	(NA)	12,084	47	8.94
1958 Census.....	5,386	(NA)	65	1,998	2.41	.40	.69	(NA)	10,526	51	8.07
INDUSTRY 3613.--SWITCHGEAR AND SWITCHBOARD APPARATUS											
1972 Census.....	8,932	(NA)	72	1,956	4.00	.40	.69	(NA)	18,849	47	13.42
1971 ASM.....	8,628	7,460	71	1,985	3.82	.39	.67	.25	18,485	47	13.14
1970 ASM.....	8,102	6,769	71	1,994	3.59	.40	.69	.24	17,203	47	12.12
1969 ASM.....	7,612	6,300	72	2,014	3.27	.39	.67	.23	16,849	45	11.57
1968 ASM.....	7,195	6,100	72	2,013	3.10	.40	.68	.24	15,623	46	10.82
1967 Census.....	7,121	5,730	72	2,023	3.03	.40	.68	.23	15,147	47	10.25
1966 ASM.....	6,944	(NA)	72	2,069	2.88	.39	.68	(NA)	15,024	46	10.05
1965 ASM.....	6,705	(NA)	71	2,051	2.83	.40	.69	(NA)	13,838	48	9.54
1964 ASM.....	6,553	5,420	68	2,087	2.74	.42	.73	.26	12,622	52	8.91
1963 Census.....	6,270	5,260	70	2,019	2.66	.41	.72	.26	11,987	52	8.42
1962 ASM.....	5,974	4,560	73	1,939	2.52	.41	.74	.25	10,977	54	7.78
1961 ASM.....	5,887	(NA)	72	1,971	2.44	.41	.74	(NA)	10,617	55	7.49
1960 ASM.....	5,675	(NA)	73	1,980	2.35	.41	.72	(NA)	11,085	51	7.68
1959 ASM.....	5,590	(NA)	73	1,977	2.31	.41	.71	(NA)	11,182	50	7.75
1958 Census.....	5,356	(NA)	69	2,007	2.34	.39	.68	(NA)	10,498	51	7.63
INDUSTRY 3621.--MOTORS AND GENERATORS											
1972 Census.....	8,467	(NA)	76	2,013	3.71	.42	.73	(NA)	16,378	52	10.64
1971 ASM.....	8,363	11,494	75	1,997	3.69	.43	.75	.44	14,829	56	9.93
1970 ASM.....	7,842	9,354	75	1,969	3.53	.43	.76	.39	14,051	56	9.47
1969 ASM.....	7,498	8,040	76	2,044	3.29	.42	.75	.35	13,456	56	8.71
1968 ASM.....	7,130	7,570	76	2,034	3.11	.41	.73	.34	13,129	54	8.55
1967 Census.....	6,781	6,750	76	2,019	2.99	.41	.73	.32	12,689	53	8.30
1966 ASM.....	6,498	(NA)	78	1,999	2.84	.42	.74	(NA)	12,156	53	7.84
1965 ASM.....	6,490	(NA)	75	2,043	2.86	.42	.75	(NA)	11,553	56	7.52
1964 ASM.....	6,425	6,050	73	2,050	2.77	.41	.74	.32	11,567	56	7.74
1963 Census.....	6,193	5,890	73	2,041	2.70	.42	.76	.32	10,547	59	7.09
1962 ASM.....	6,131	5,600	72	2,005	2.67	.42	.77	.32	10,375	59	7.19
1961 ASM.....	5,950	(NA)	71	1,969	2.62	.41	.77	(NA)	9,732	61	7.00
1960 ASM.....	5,724	(NA)	71	1,956	2.54	.41	.76	(NA)	9,509	60	6.83
1959 ASM.....	5,597	(NA)	72	2,004	2.45	.41	.76	(NA)	9,795	57	6.36
1958 Census.....	5,226	(NA)	69	1,972	2.38	.39	.74	(NA)	8,693	60	6.36
INDUSTRY 3622.--INDUSTRIAL CONTROLS											
1972 Census.....	9,164	(NA)	65	1,994	3.89	.39	.72	(NA)	17,771	52	13.69
1971 ASM.....	8,761	8,778	64	1,903	3.88	.35	.69	.34	16,381	54	13.38
1970 ASM.....	8,210	8,058	64	1,935	3.59	.35	.69	.33	15,985	51	12.90
1969 ASM.....	7,703	7,500	66	1,992	3.25	.35	.70	.34	14,748	52	11.14
1968 ASM.....	7,198	6,300	54	2,385	3.14	.35	.68	.29	13,909	52	10.89
1967 Census.....	6,959	5,890	69	2,002	3.03	.35	.67	.27	14,299	49	10.36
1966 ASM.....	7,084	(NA)	69	2,094	2.96	.35	.66	(NA)	15,658	45	10.89
1965 ASM.....	6,828	(NA)	68	2,069	2.93	.34	.65	(NA)	14,799	46	10.50
1964 ASM.....	6,739	5,870	69	1,986	2.90	.34	.66	.28	14,405	47	10.48
1963 Census.....	6,505	5,730	69	1,972	2.79	.32	.65	.29	13,656	48	10.03
1962 ASM.....	6,247	5,360	66	2,014	2.68	.31	.66	.30	12,619	50	9.44
1961 ASM.....	6,079	(NA)	64	1,985	2.63	.31	.66	(NA)	12,271	50	9.63
1960 ASM.....	5,860	(NA)	65	1,978	2.57	.31	.64	(NA)	12,221	48	9.44
1959 ASM.....	5,866	(NA)	68	2,019	2.53	.31	.64	(NA)	12,394	47	9.03
1958 Census.....	5,351	(NA)	64	1,944	2.43	.30	.65	(NA)	10,383	52	8.37

See footnote at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual men-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials end payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3623.--WELDING APPARATUS, ELECTRIC											
1972 Census.....	11,219	(NA)	63	2,133	4.90	.48	.74	(NA)	22,806	49	16.91
1971 ASM.....	11,047	13,512	60	2,171	4.59	.48	.76	.34	20,591	54	15.85
1970 ASM.....	10,063	11,832	63	2,067	4.29	.49	.78	.33	17,881	56	13.75
1969 ASM.....	9,773	9,130	65	2,102	4.31	.48	.75	.26	18,427	53	13.42
1968 ASM.....	9,304	9,580	68	2,043	4.02	.47	.73	.27	18,254	51	13.12
1967 Census.....	8,630	9,450	69	2,106	3.68	.48	.72	.26	19,341	45	13.40
1966 ASM.....	8,080	(NA)	70	2,151	3.39	.53	.75	(NA)	18,362	44	12.21
1965 ASM.....	8,189	(NA)	67	2,287	3.23	.53	.77	(NA)	16,676	49	10.83
1964 ASM.....	8,029	7,890	68	2,328	3.20	.52	.75	.23	16,832	48	10.66
1963 Census.....	7,489	8,680	68	2,144	3.17	.51	.73	.25	16,867	44	11.54
1962 ASM.....	7,449	7,996	65	2,117	2.96	.56	.80	.26	13,431	55	9.84
1961 ASM.....	6,872	(NA)	65	2,003	2.81	.55	.80	(NA)	12,149	57	9.35
1960 ASM.....	6,923	(NA)	66	1,990	2.80	.54	.79	(NA)	12,456	56	9.43
1959 ASM.....	6,883	(NA)	67	2,076	2.80	.55	.79	(NA)	13,113	52	9.36
1958 Census.....	6,141	(NA)	65	1,994	2.59	.55	.79	(NA)	11,391	54	8.84
INDUSTRY 3624.--CARBON AND GRAPHITE PRODUCTS											
1972 Census.....	8,814	(NA)	76	1,942	4.25	.42	.68	(NA)	19,239	46	13.02
1971 ASM.....	8,351	29,685	76	1,964	4.00	.40	.66	.92	19,703	42	13.26
1970 ASM.....	8,033	26,225	77	2,011	3.75	.36	.63	.85	20,458	39	13.27
1969 ASM.....	7,637	25,530	78	1,955	3.61	.37	.63	.87	18,363	42	12.06
1968 ASM.....	7,053	24,910	77	1,977	3.31	.39	.66	.96	16,150	44	10.61
1967 Census.....	6,976	22,170	77	2,027	3.13	.40	.68	.89	15,696	44	10.07
1966 ASM.....	6,865	(NA)	77	2,033	3.04	.40	.66	(NA)	16,267	42	10.28
1965 ASM.....	6,605	(NA)	77	2,064	2.95	.38	.63	(NA)	16,254	41	10.21
1964 ASM.....	6,446	18,350	76	2,038	2.89	.39	.68	.82	14,050	46	9.02
1963 Census.....	6,123	18,530	79	2,022	2.74	.37	.65	.82	13,970	44	8.78
1962 ASM.....	5,820	18,040	75	2,016	2.60	.36	.64	.89	13,229	44	8.78
1961 ASM.....	5,663	(NA)	75	1,962	2.58	.36	.65	(NA)	12,333	46	8.43
1960 ASM.....	5,494	(NA)	76	1,936	2.54	.36	.65	(NA)	12,580	44	8.58
1959 ASM.....	5,396	(NA)	77	2,008	2.43	.36	.64	(NA)	11,888	45	7.68
1958 Census.....	5,124	(NA)	74	1,966	2.35	.38	.68	(NA)	11,510	45	7.87
INDUSTRY 3629.--ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.											
1972 Census.....	8,188	(NA)	67	1,933	3.43	.42	.78	(NA)	13,406	61	10.38
1971 ASM.....	7,741	7,849	65	1,910	3.10	.35	.71	.37	13,478	57	10.79
1970 ASM.....	6,921	6,263	75	1,908	3.03	.41	.73	.29	12,900	54	9.04
1969 ASM.....	6,854	5,840	75	1,987	2.91	.43	.74	.27	12,644	54	8.53
1968 ASM.....	6,396	5,560	76	1,942	2.83	.42	.72	.26	12,530	51	8.46
1967 Census.....	5,868	5,700	78	1,953	2.57	.43	.74	.31	10,847	54	7.08
1966 ASM.....	5,500	(NA)	80	1,926	2.41	.44	.75	(NA)	10,341	53	6.72
1965 ASM.....	5,394	(NA)	77	2,022	2.25	.47	.77	(NA)	9,506	57	6.08
1964 ASM.....	5,255	3,920	78	1,942	2.26	.43	.74	.23	9,296	57	6.16
1963 Census.....	5,198	3,820	78	1,931	2.27	.42	.73	.22	10,087	52	6.73
1962 ASM.....	4,481	2,430	76	1,922	1.93	.42	.76	.18	7,725	58	5.30
1961 ASM.....	4,421	(NA)	76	1,898	1.96	.40	.74	(NA)	7,902	56	5.51
1960 ASM.....	4,578	(NA)	77	1,861	1.95	.43	.78	(NA)	7,544	61	5.25
1959 ASM.....	4,757	(NA)	76	1,969	1.97	.41	.75	(NA)	8,453	56	5.64
1958 Census.....	4,667	(NA)	71	1,987	1.99	.41	.75	(NA)	8,167	57	5.82

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3612-- TRANSFORMERS</b>													
UNITED STATES. . . . .	216	136	45.9	410.4	35.2	70.1	282.0	759.9	697.9	1 461.9	25.7	45.6	678.9
NORTHEAST REGION . . . . .	59	38	16.2	159.9	11.8	23.6	108.4	257.2	194.9	454.8	(D)	20.2	311.5
NEW ENGLAND DIVISION . . . . .	15	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS. . . . .	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION . . . . .	44	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	16	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9	10.5
NEW JERSEY . . . . .	15	6	1.2	8.6	.9	1.8	5.9	11.7	12.7	23.8	(D)	1.4	18.6
PENNSYLVANIA . . . . .	13	11	9.5	98.6	7.0	14.4	69.3	147.2	118.9	269.0	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	68	48	15.3	135.7	12.0	23.9	93.8	236.7	248.2	484.6	6.5	17.0	223.5
EAST NORTH CENTRAL DIVISION. . . . .	58	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	13	10	1.9	14.8	1.5	2.6	10.8	28.9	35.1	61.4	(D)	1.7	21.9
INDIANA . . . . .	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS . . . . .	19	14	5.0	40.4	4.0	8.3	28.4	60.6	67.2	127.3	(D)	6.4	58.5
MICHIGAN . . . . .	8	4	.3	2.0	.2	.4	1.3	3.2	3.2	6.1	(D)	.5	9.0
WISCONSIN . . . . .	13	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	38.8
WEST NORTH CENTRAL DIVISION. . . . .	10	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI . . . . .	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION . . . . .	45	31	12.6	98.5	10.0	20.0	68.8	227.3	217.2	446.9	(D)	6.9	112.8
SOUTH ATLANTIC DIVISION. . . . .	19	15	6.5	57.0	4.8	9.5	35.6	133.9	115.1	251.7	4.2	4.5	82.5
VIRGINIA . . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CAROLINA . . . . .	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA . . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
FLORIDA . . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	10	10	4.5	28.3	4.0	8.1	22.8	69.5	74.3	143.9	4.8	1.6	18.1
KENTUCKY . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSISSIPPI . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	16	6	1.6	13.2	1.2	2.5	10.4	23.9	27.7	51.3	(D)	.8	12.2
ARKANSAS . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
LOUISIANA . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	44	19	1.8	16.2	1.3	2.5	11.0	38.7	37.6	75.6	1.0	1.5	31.1
PACIFIC DIVISION . . . . .	40	19	1.8	16.0	1.3	2.5	10.9	38.5	37.5	75.4	(D)	EE	(D)
CALIFORNIA . . . . .	32	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	27.5
<b>3613-- SWITCHGEAR AND SWITCHBOARD APPARATUS</b>													
UNITED STATES. . . . .	568	283	68.9	615.4	49.5	96.8	387.3	1 298.7	840.8	2 115.0	36.8	68.5	1 030.3
NORTHEAST REGION . . . . .	181	97	30.7	299.9	21.1	40.6	182.8	586.9	357.3	933.8	(D)	32.4	512.5
NEW ENGLAND DIVISION . . . . .	49	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	89.5
MAINE . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEW HAMPSHIRE . . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS . . . . .	21	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	30.0
CONNECTICUT . . . . .	23	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	53.5
MIDDLE ATLANTIC DIVISION . . . . .	132	68	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	25.7	423.0
NEW YORK . . . . .	41	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	41.4
NEW JERSEY . . . . .	48	24	4.4	41.0	3.0	5.8	23.4	72.6	43.9	117.5	(D)	5.3	74.2
PENNSYLVANIA . . . . .	43	26	16.9	176.8	11.9	22.2	112.5	349.1	178.1	521.7	(D)	17.3	307.3
NORTH CENTRAL REGION . . . . .	171	88	20.6	181.0	15.2	30.6	117.9	403.6	246.0	637.6	10.6	21.4	313.4
EAST NORTH CENTRAL DIVISION. . . . .	142	72	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.2	225.6
OHIO . . . . .	35	16	2.4	21.2	1.6	3.2	12.7	48.2	31.5	79.9	(D)	2.9	54.2
INDIANA . . . . .	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	61	38	6.9	62.5	5.0	9.9	37.2	108.3	78.8	184.3	(D)	7.7	96.6
MICHIGAN . . . . .	27	11	.8	8.2	.6	1.1	5.2	16.4	14.7	31.2	(D)	2.2	24.5
WISCONSIN . . . . .	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	29	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	87.7
MINNESOTA . . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
IOWA . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI . . . . .	11	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	39.9
NEBRASKA . . . . .	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	117	56	12.4	89.4	9.6	18.4	60.7	218.9	163.8	378.6	(D)	9.1	127.9
SOUTH ATLANTIC DIVISION. . . . .	58	27	6.1	41.3	4.9	9.3	27.6	102.7	74.5	175.3	3.3	4.4	59.5
MARYLAND . . . . .	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
VIRGINIA . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CAROLINA . . . . .	13	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	15	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	29.6
FLORIDA . . . . .	10	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	22	9	4.4	33.0	3.4	6.5	23.7	81.4	47.2	127.1	3.0	3.5	42.8
KENTUCKY . . . . .	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE . . . . .	5	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	37	20	1.9	15.1	1.3	2.6	9.4	34.9	42.0	76.2	(D)	1.2	18.5
ARKANSAS . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	26	14	1.4	11.2	.9	1.9	7.3	24.9	30.9	55.3	.8	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3613-- SWITCHGEAR AND SWITCHBOARD APPARATUS--CONTINUED</b>													
WEST REGION. . . . .	99	42	5.2	45.2	3.6	7.3	25.8	89.3	73.6	165.0	5.3	5.6	76.5
MOUNTAIN DIVISION. . . . . E1	18	5	.4	3.4	.3	.5	1.8	8.5	3.7	11.7	(D)	.2	2.2
ARIZONA. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	81	37	4.8	41.7	3.3	6.8	24.0	80.8	69.9	153.3	(D)	5.4	74.3
WASHINGTON. . . . . E1	9	4	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.3
OREGON. . . . .	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.4
CALIFORNIA. . . . .	65	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8	65.6
<b>3621-- MOTORS AND GENERATORS</b>													
UNITED STATES. . . . .	426	258	90.6	767.1	69.3	139.5	517.6	1 483.9	1 061.8	2 516.0	59.0	112.8	1 430.8
NORTHEAST REGION. . . . .	101	61	22.4	220.9	15.8	33.0	138.0	395.1	263.5	667.3	(D)	33.1	478.1
NEW ENGLAND DIVISION. . . . .	24	15	2.4	22.1	1.2	2.3	9.1	16.1	31.6	57.7	(D)	3.8	47.4
NEW HAMPSHIRE. . . . . E1	7	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS. . . . . E3	6	4	.3	1.8	.2	.4	1.1	2.7	1.7	4.7	(D)	CC	(D)
CONNECTICUT. . . . .	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	37.7
MIDDLE ATLANTIC DIVISION. . . . .	77	46	20.0	198.8	14.6	30.7	128.9	379.0	231.8	609.6	(D)	29.3	430.7
NEW YORK. . . . .	33	17	12.1	127.7	9.3	19.9	88.3	251.4	148.0	400.3	(D)	17.1	269.1
NEW JERSEY. . . . .	20	13	3.0	24.9	2.1	4.3	15.7	38.0	31.7	66.2	(D)	3.3	34.8
PENNSYLVANIA. . . . .	24	16	5.0	46.2	3.1	6.5	24.9	89.6	52.1	143.2	(D)	8.9	126.8
NORTH CENTRAL REGION. . . . .	173	119	42.2	375.2	32.2	63.8	255.9	673.0	475.5	1 125.3	24.3	56.9	690.7
EAST NORTH CENTRAL DIVISION. . . . .	148	100	35.8	320.9	27.1	53.9	216.5	563.4	389.7	933.8	18.0	47.9	584.7
OHIO. . . . .	41	31	12.9	121.0	9.7	19.4	81.3	222.4	163.9	378.8	7.5	23.3	297.3
INDIANA. . . . .	24	18	10.8	98.5	8.7	17.2	72.7	164.0	102.1	260.1	(D)	10.4	124.8
ILLINOIS. . . . .	35	20	3.7	26.6	2.9	5.7	18.0	52.0	41.0	92.3	(D)	4.0	42.3
MICHIGAN. . . . .	14	11	3.0	23.6	2.3	5.0	15.8	35.1	22.0	55.9	.8	3.6	31.6
WISCONSIN. . . . .	34	20	5.5	51.2	3.5	6.6	28.8	89.9	60.7	146.7	3.9	6.6	88.7
WEST NORTH CENTRAL DIVISION. . . . .	25	19	6.4	54.3	5.1	9.9	39.4	109.5	85.8	191.5	6.2	7.5	90.4
MINNESOTA. . . . .	10	7	2.5	25.9	1.9	3.7	16.5	58.8	44.2	101.0	2.2	FF	(D)
IOWA. . . . .	4	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSOURI. . . . .	9	8	3.4	24.5	2.8	5.4	20.1	42.5	35.2	76.4	3.5	3.6	30.9
SOUTH REGION. . . . .	76	49	22.6	141.6	19.2	38.4	106.9	361.6	273.8	619.0	(D)	16.5	173.4
SOUTH ATLANTIC DIVISION. . . . .	26	16	5.0	31.8	3.9	8.0	21.2	65.3	42.1	107.0	5.1	6.0	53.5
MARYLAND. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA. . . . .	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	14.4
WEST VIRGINIA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	6	5	1.9	11.7	1.5	3.2	7.6	31.5	12.1	41.6	.9	2.2	20.6
SOUTH CAROLINA. . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	22	16	9.2	54.3	8.0	16.1	43.0	133.1	117.4	243.2	(D)	6.5	73.3
KENTUCKY. . . . .	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE. . . . .	12	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	31.5
MISSISSIPPI. . . . .	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	28	17	8.4	55.4	7.2	14.3	42.7	163.3	114.3	268.7	(D)	3.9	46.6
ARKANSAS. . . . .	12	11	7.3	45.6	6.6	13.0	38.6	138.1	73.1	206.2	5.1	FF	(D)
TEXAS. . . . .	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	76	29	3.3	29.4	2.2	4.3	16.8	54.2	49.1	104.4	1.4	6.3	88.5
MOUNTAIN DIVISION. . . . .	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PACIFIC DIVISION. . . . .	68	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA. . . . .	64	25	3.1	27.4	2.0	3.9	15.6	50.5	39.4	91.0	(D)	5.4	78.9
<b>3622-- INDUSTRIAL CONTROL</b>													
UNITED STATES. . . . .	579	207	49.3	451.8	32.1	64.0	249.0	876.1	534.7	1 373.0	45.8	50.4	720.9
NORTHEAST REGION. . . . .	178	53	12.8	119.6	8.6	18.8	66.1	228.6	151.0	371.3	(D)	10.5	128.1
NEW ENGLAND DIVISION. . . . .	61	21	7.4	68.2	5.3	12.4	40.9	131.3	89.4	216.1	(D)	5.2	64.1
MASSACHUSETTS. . . . .	26	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	38.5
CONNECTICUT. . . . .	32	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION. . . . .	117	32	5.4	51.5	3.2	6.4	25.2	97.2	61.6	155.2	(D)	5.4	64.0
NEW YORK. . . . .	40	12	3.3	33.4	1.9	3.6	15.4	65.9	35.7	99.5	(D)	3.5	44.0
NEW JERSEY. . . . . E2	33	4	.6	5.4	.4	.8	3.2	10.3	6.3	15.0	(D)	.9	7.2
PENNSYLVANIA. . . . .	44	16	1.5	12.6	1.0	2.0	6.6	21.0	19.6	40.6	(D)	1.0	12.8
NORTH CENTRAL REGION. . . . .	201	91	23.5	224.4	14.8	28.6	123.1	403.4	227.0	615.5	13.7	25.0	373.4
EAST NORTH CENTRAL DIVISION. . . . .	177	81	22.5	217.4	14.3	27.7	120.3	391.5	219.0	591.7	13.3	24.3	364.2
OHIO. . . . .	46	21	3.7	38.0	2.1	4.2	17.1	72.2	38.5	107.2	3.5	2.5	35.4
INDIANA. . . . .	14	5	.4	2.6	.3	.5	1.3	6.1	4.2	10.3	(D)	EE	(D)
ILLINOIS. . . . .	50	25	4.4	36.2	3.0	5.6	18.8	84.5	59.7	141.5	(D)	5.1	73.4
MICHIGAN. . . . . E1	44	14	1.2	12.1	.8	1.5	6.1	29.1	14.1	42.6	.5	EE	(D)
WISCONSIN. . . . .	23	16	12.7	128.5	8.2	16.0	77.0	199.6	102.5	290.0	5.8	14.2	220.5
WEST NORTH CENTRAL DIVISION. . . . .	24	10	1.0	6.9	.5	.9	2.8	16.9	8.0	23.8	.4	.7	9.1
MINNESOTA. . . . .	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3622-- INDUSTRIAL CONTROL--CONTINUED													
SOUTH REGION . . . . .	96	36	10.9	88.1	7.3	14.1	49.3	200.8	131.7	323.9	(D)	10.8	168.4
SOUTH ATLANTIC DIVISION. . . . .	47	22	8.0	68.7	5.1	10.0	36.1	163.5	93.5	251.7	(D)	7.4	121.2
MARYLAND . . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VIRGINIA . . . . .	11	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST VIRGINIA. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA . . . . .	10	6	1.6	11.2	1.0	2.0	6.5	39.4	17.2	51.0	(D)	88	(D)
SOUTH CAROLINA . . . . .	5	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
GEORGIA. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. . . . . E1	10	2	.4	3.4	.2	.3	1.0	4.7	4.1	9.2	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	38	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OKLAHOMA . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS. . . . . E1	32	6	.3	2.7	.2	.5	1.4	5.4	5.1	10.0	1.1	.7	8.2
WEST REGION. . . . . E1	104	27	2.1	19.7	1.4	2.7	10.3	38.3	25.0	62.3	4.3	4.1	50.9
MOUNTAIN DIVISION. . . . . E3	16	3	.2	1.3	.1	.2	.8	2.4	1.4	3.7	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . . E1	88	24	2.0	18.4	1.2	2.5	9.6	35.9	23.6	58.6	(D)	FF	(D)
CALIFORNIA . . . . . E1	71	22	1.8	16.7	1.2	2.3	8.8	32.3	21.0	52.4	(D)	3.7	47.0
3623-- WELDING APPARATUS, ELECTRIC													
UNITED STATES. . . . .	166	80	15.5	173.9	9.8	20.9	102.5	353.5	314.2	659.6	11.4	13.7	265.3
NORTHEAST REGION . . . . .	37	14	2.9	30.5	1.5	3.1	12.6	62.4	52.1	114.4	(D)	2.2	51.5
NEW ENGLAND DIVISION . . . . .	11	2	.2	1.7	.2	.3	.9	3.3	2.9	6.2	(D)	.3	3.5
CONNECTICUT. . . . .	6	2	.2	1.2	.1	.2	.6	2.3	2.3	4.6	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	26	12	2.7	28.7	1.3	2.8	11.6	59.1	49.2	108.2	(D)	1.9	48.1
NEW YORK . . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	19.2
PENNSYLVANIA . . . . .	10	6	1.5	14.3	.9	2.0	8.7	34.4	34.3	67.6	(D)	1.3	28.0
NORTH CENTRAL REGION . . . . .	89	49	9.9	120.3	6.8	14.8	77.5	226.1	210.9	434.7	8.3	9.4	175.1
EAST NORTH CENTRAL DIVISION. . . . .	74	41	9.0	112.4	6.1	13.4	72.9	211.4	197.3	406.2	7.7	8.8	168.2
OHIO . . . . .	16	11	4.5	61.4	3.1	6.7	40.8	118.8	120.5	239.6	3.6	FF	(D)
INDIANA . . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ILLINOIS . . . . . E1	14	5	.9	9.7	.6	1.1	5.0	15.4	11.0	25.5	1.8	.9	12.9
MICHIGAN . . . . .	34	19	2.0	25.2	1.5	3.4	17.3	44.4	35.4	78.8	1.2	2.4	37.3
WISCONSIN. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION. . . . .	15	8	.9	7.9	.7	1.4	4.6	14.8	13.6	28.5	.6	.5	7.0
MINNESOTA. . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	7	4	.3	3.3	.2	.5	1.8	5.1	6.2	11.3	.2	.3	4.1
KANSAS . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	12	8	1.7	13.9	1.0	2.0	7.6	49.2	37.3	81.0	(D)	1.2	24.7
SOUTH ATLANTIC DIVISION. . . . .	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MARYLAND . . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH CAROLINA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	2	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
TEXAS. . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST REGION. . . . .	28	9	.9	9.3	.6	1.1	4.9	15.7	13.9	29.4	.4	.9	13.9
PACIFIC DIVISION . . . . .	26	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA . . . . .	24	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	13.0
3624-- CARBON AND GRAPHITE PRODUCTS													
UNITED STATES. . . . .	72	44	11.3	99.6	8.6	16.7	70.9	217.4	158.2	377.4	20.2	11.9	186.3
NORTHEAST REGION . . . . .	30	18	5.8	50.0	4.3	8.2	35.0	105.6	54.8	158.9	(D)	6.1	74.3
MIDDLE ATLANTIC DIVISION . . . . .	24	16	5.7	49.3	4.2	8.0	34.6	104.5	54.4	157.5	(D)	6.0	72.9
NEW YORK . . . . .	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	35.7
NEW JERSEY . . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	12	7	3.3	25.4	2.4	4.6	18.0	53.2	26.6	77.7	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	24	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	24	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	38.7
OHIO . . . . .	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MICHIGAN . . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN. . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION . . . . .	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH ATLANTIC DIVISION. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3624-- CARBON AND GRAPHITE PRODUCTS-- CONTINUED													
SOUTH REGION--CONTINUED													
EAST SOUTH CENTRAL DIVISION. . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3629-- ELECTRICAL INDUSTRIAL APPARATUS, NEC													
UNITED STATES. . . . .	259	122	20.2	165.4	13.5	26.1	89.6	270.8	187.7	450.5	11.2	17.9	188.3
NORTHEAST REGION . . . . .	76	34	7.5	60.7	5.1	10.1	35.4	98.7	68.8	167.8	(D)	6.2	66.4
NEW ENGLAND DIVISION . . . . .	24	11	3.6	25.3	2.2	4.2	12.7	27.7	27.3	56.8	(D)	EE	(D)
MASSACHUSETTS. . . . .	15	6	3.2	23.4	1.9	3.7	11.3	23.7	24.0	49.8	(D)	.5	4.9
CONNECTICUT. . . . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.0
MIDDLE ATLANTIC DIVISION . . . .	52	23	3.9	35.4	2.9	5.9	22.7	71.0	41.5	111.0	(D)	5.1	57.9
NEW YORK . . . . .	23	10	2.7	24.9	2.1	4.2	16.3	52.2	30.1	81.3	(D)	3.5	40.1
NEW JERSEY . . . . . E3	13	4	.3	2.5	.2	.4	1.6	3.4	2.8	6.1	(D)	.9	9.6
PENNSYLVANIA . . . . .	16	9	.9	8.0	.7	1.3	4.8	15.4	8.6	23.6	(D)	CC	(D)
NORTH CENTRAL REGION . . . . .	90	54	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . .	72	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.1	85.3
OHIO . . . . .	16	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	35.1
INDIANA . . . . .	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	27.2
ILLINOIS . . . . . E2	29	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN . . . . .	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN. . . . .	4	3	.3	1.8	.3	.5	1.2	3.0	2.2	5.1	(Z)	BB	(D)
WEST NORTH CENTRAL DIVISION. . E1	18	9	.5	3.7	.4	.8	1.9	7.0	5.6	12.3	.1	1.1	11.2
MINNESOTA. . . . . E1	11	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION . . . . .	38	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH ATLANTIC DIVISION. . . . .	22	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . E3	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E3	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . . E1	55	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	19.7
PACIFIC DIVISION . . . . . E1	51	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	18.2
CALIFORNIA . . . . . E1	44	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent<sup>1</sup>

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

(See appendix, Explanation of Terms)

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3612-- TRANSFORMERS											
ESTABLISHMENTS, TOTAL. . . . .	216	45.9	410.4	35.2	70.1	282.0	759.9	697.9	1 461.9	25.7	258.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	31	.1	.4	.1	.1	.3	.7	.7	1.4	(2)	.2
5 TO 9 EMPLOYEES . . . . . E8	21	.1	1.0	.1	.2	.6	1.8	1.5	3.3	.1	.6
10 TO 19 EMPLOYEES . . . . . E2	28	.4	2.9	.3	.5	1.8	4.8	3.4	8.1	.2	1.1
20 TO 49 EMPLOYEES . . . . .	36	1.2	9.4	.9	1.7	6.1	20.5	20.7	40.5	.6	8.4
50 TO 99 EMPLOYEES . . . . .	35	2.5	17.8	2.0	3.8	11.5	32.4	37.9	68.1	1.2	14.5
100 TO 249 EMPLOYEES . . . . .	30	4.9	40.3	3.9	8.0	29.4	95.3	89.9	181.6	2.7	32.5
250 TO 499 EMPLOYEES . . . . .	11	4.0	31.9	2.9	5.6	20.1	63.6	61.7	127.7	1.6	30.5
500 TO 999 EMPLOYEES . . . . .	10	6.7	59.7	5.3	10.6	43.2	104.4	133.0	235.5	5.5	47.6
1,000 TO 2,499 EMPLOYEES . . . . .	11	16.2	145.6	12.7	25.5	99.8	277.7	244.9	529.4	9.8	73.5
2,500 EMPLOYEES OR MORE. . . . .	3	9.8	101.4	7.0	14.3	69.2	158.7	104.1	266.4	4.0	49.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	43	.2	1.3	.1	.3	.9	2.4	2.1	4.5	.1	.8
3613-- SWITCHGEAR, SWITCHBOARD APPARATUS											
ESTABLISHMENTS, TOTAL. . . . .	568	68.9	615.4	49.5	96.8	387.3	1 298.7	840.8	2 115.0	36.8	411.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E6	143	.3	2.1	.2	.4	1.4	5.7	5.0	10.7	.2	1.9
5 TO 9 EMPLOYEES . . . . . E5	66	.4	3.8	.3	.6	2.3	7.4	6.1	13.5	.3	2.2
10 TO 19 EMPLOYEES . . . . . E2	76	1.1	9.0	.7	1.4	5.2	17.7	16.3	33.4	.6	5.5
20 TO 49 EMPLOYEES . . . . . E1	104	3.4	30.1	2.3	4.4	16.9	52.1	49.8	101.5	1.7	18.0
50 TO 99 EMPLOYEES . . . . .	53	3.7	32.2	2.5	5.1	19.1	60.3	65.1	125.3	1.8	20.4
100 TO 249 EMPLOYEES . . . . .	55	8.7	70.6	6.4	12.0	45.4	155.4	128.9	281.9	6.4	52.5
250 TO 499 EMPLOYEES . . . . .	36	13.7	108.1	10.0	19.7	66.9	228.5	169.6	398.1	6.7	81.3
500 TO 999 EMPLOYEES . . . . .	21	14.5	120.8	10.8	21.7	79.7	268.9	150.9	408.9	8.5	85.2
1,000 TO 2,499 EMPLOYEES . . . . .	12	23.3	238.8	16.1	31.4	150.4	502.9	249.2	741.7	10.7	144.4
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	130	.5	3.7	.4	.6	2.4	8.1	5.3	13.5	.3	2.7
3621-- MOTORS AND GENERATORS											
ESTABLISHMENTS, TOTAL. . . . .	426	90.6	767.1	69.3	139.5	517.6	1 483.9	1 061.8	2 516.0	59.0	468.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E6	89	.1	1.1	.1	.2	.7	1.3	1.7	4.2	.4	.7
5 TO 9 EMPLOYEES . . . . . E6	33	.2	1.7	.2	.3	1.1	3.1	2.5	5.5	.2	1.2
10 TO 19 EMPLOYEES . . . . . E3	46	.6	4.9	.4	.8	2.9	10.7	7.6	18.1	.5	3.5
20 TO 49 EMPLOYEES . . . . . E1	51	1.7	14.1	1.2	2.3	8.1	26.0	23.4	48.7	1.3	8.5
50 TO 99 EMPLOYEES . . . . .	44	3.3	24.5	2.5	4.9	15.1	50.5	41.0	90.9	2.5	19.1
100 TO 249 EMPLOYEES . . . . .	59	9.5	72.7	7.0	13.9	46.5	135.0	132.0	271.0	9.9	53.9
250 TO 499 EMPLOYEES . . . . .	44	15.8	125.8	12.1	23.8	81.3	245.1	170.2	407.4	12.4	84.6
500 TO 999 EMPLOYEES . . . . .	38	26.5	200.3	21.1	41.5	144.8	397.2	294.0	674.1	10.5	133.7
1,000 TO 2,499 EMPLOYEES . . . . .	19	23.9	220.9	17.9	36.5	145.4	408.7	274.0	674.4	17.4	128.0
2,500 EMPLOYEES OR MORE. . . . .	3	9.0	101.1	6.9	15.2	71.8	206.3	115.3	321.8	4.1	35.5
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	82	.2	1.8	.2	.3	1.2	3.4	2.5	5.9	.2	1.2
3622-- INDUSTRIAL CONTROL											
ESTABLISHMENTS, TOTAL. . . . .	579	49.3	451.8	32.1	64.0	249.0	876.1	534.7	1 373.0	45.8	322.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	183	.3	2.9	.3	.4	1.5	7.4	4.1	11.3	3.1	2.5
5 TO 9 EMPLOYEES . . . . . E6	99	.7	5.9	.4	.8	3.0	11.9	7.1	19.0	.4	3.3
10 TO 19 EMPLOYEES . . . . . E1	90	1.3	11.8	.8	1.6	6.1	23.4	15.3	38.3	.6	6.5
20 TO 49 EMPLOYEES . . . . . E1	91	2.9	24.4	1.8	3.3	11.8	47.4	31.5	78.0	2.8	15.0
50 TO 99 EMPLOYEES . . . . .	44	3.0	26.3	1.8	3.7	12.5	56.5	38.5	92.1	1.6	17.2
100 TO 249 EMPLOYEES . . . . .	34	5.5	45.4	3.6	7.0	23.3	91.1	70.8	159.9	4.1	38.7
250 TO 499 EMPLOYEES . . . . .	19	6.4	53.3	4.1	7.4	27.5	116.2	75.2	184.8	9.7	50.8
500 TO 999 EMPLOYEES . . . . .	11	7.9	71.0	5.3	10.2	38.5	151.9	68.3	214.0	6.1	61.3
1,000 TO 2,499 EMPLOYEES . . . . .	6	21.3	211.1	14.2	29.6	124.7	370.3	223.8	575.6	17.2	127.0
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	183	.6	5.1	.4	.8	2.8	12.1	6.6	18.7	.5	4.2
3623-- WELDING APPARATUS, ELECTRIC											
ESTABLISHMENTS, TOTAL. . . . .	166	15.5	173.9	9.8	20.9	102.5	353.5	314.2	659.6	11.4	149.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	37	.1	.8	.1	.1	.4	1.7	1.5	3.3	(2)	.7
5 TO 9 EMPLOYEES . . . . . E6	18	.1	1.0	.1	.2	.7	2.0	1.9	3.9	.1	.9
10 TO 19 EMPLOYEES . . . . . E3	31	.5	4.3	.3	.6	2.3	7.2	5.9	13.0	.2	2.4
20 TO 49 EMPLOYEES . . . . .	23	.8	8.3	.5	.9	4.6	17.6	13.1	30.7	1.2	5.6
50 TO 99 EMPLOYEES . . . . .	16	1.1	12.0	.8	1.7	7.5	21.6	18.5	39.3	.4	7.6
100 TO 249 EMPLOYEES . . . . .	28	4.0	40.9	2.7	6.0	25.3	75.7	83.3	158.4	3.9	35.8
250 TO 499 EMPLOYEES . . . . .	6	2.2	23.6	1.2	2.5	11.9	41.6	25.5	66.2	.7	16.9
500 TO 999 EMPLOYEES . . . . .	5	6.6	83.1	4.1	8.9	49.9	186.3	164.4	344.8	4.8	79.4
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	35	.1	1.0	.1	.1	.6	2.3	2.1	4.4	.1	1.0

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inventories
		Number	Payroll	Number	Men-hours	Wages					
		(number)	(1,000)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3624-- CARBON AND GRAPHITE PRODUCTS											
ESTABLISHMENTS, TOTAL, . . . . .	72	11.3	99.6	8.6	16.7	70.9	217.4	158.2	377.4	20.2	98.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	11	(Z)	.2	(Z)	(Z)	.2	.4	.3	.7	(Z)	.2
5 TO 9 EMPLOYEES . . . . .	6	(Z)	.4	(Z)	.1	.3	.6	.3	.9	(Z)	.2
10 TO 19 EMPLOYEES . . . . . E1	11	.1	1.3	.1	.2	.9	2.6	.9	3.4	.1	.7
20 TO 49 EMPLOYEES . . . . .	13	.4	2.7	.3	.6	1.7	5.4	3.3	8.5	.4	1.4
50 TO 99 EMPLOYEES . . . . .	7	.6	5.2	.4	.8	3.2	10.1	6.9	17.1	1.0	4.1
100 TO 249 EMPLOYEES . . . . .	10	1.6	12.8	1.2	2.4	8.6	23.1	17.8	40.9	3.5	8.5
250 TO 499 EMPLOYEES . . . . .	4	1.2	9.7	.9	1.7	6.4	18.0	12.5	31.2	1.4	6.5
500 TO 999 EMPLOYEES . . . . .	9	7.3	67.2	5.5	10.9	49.7	157.3	116.3	274.7	13.9	76.8
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	9	(Z)	.3	(Z)	.1	.2	.4	.3	.7	(Z)	.2
3629-- ELEC. INDUSTRIAL APPARATUS, NEC											
ESTABLISHMENTS, TOTAL, . . . . .	259	20.2	165.4	13.5	26.1	89.6	270.8	187.7	450.5	11.2	99.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	65	.1	1.1	.1	.2	.7	2.6	1.5	4.1	.1	.7
5 TO 9 EMPLOYEES . . . . . E5	41	.3	2.0	.2	.3	1.2	4.9	2.4	7.3	.3	1.4
10 TO 19 EMPLOYEES . . . . . E2	31	.5	4.0	.3	.6	2.1	6.9	4.0	10.6	.2	2.7
20 TO 49 EMPLOYEES . . . . .	48	1.5	12.9	1.1	2.1	7.4	24.4	17.1	41.0	1.2	6.3
50 TO 99 EMPLOYEES . . . . . E1	33	2.4	17.2	1.6	3.3	9.7	29.4	25.8	54.5	1.6	11.8
100 TO 249 EMPLOYEES . . . . .	28	4.4	31.5	3.4	6.6	20.4	60.0	47.4	105.7	1.5	23.3
250 TO 499 EMPLOYEES . . . . .	4	1.1	7.7	.9	1.5	4.7	12.2	11.7	24.1	.3	3.2
500 TO 999 EMPLOYEES . . . . .	5	3.3	27.6	2.4	4.9	17.8	50.4	38.4	85.9	.9	23.0
1,000 TO 2,499 EMPLOYEES . . . . .	4	6.6	61.4	3.4	6.6	25.8	80.0	39.4	117.3	5.2	26.7
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	60	.3	1.8	.2	.4	1.1	3.9	2.6	6.5	.2	1.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balances of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3612	TRANSFORMERS										
	ENTIRE INDUSTRY . . . . .	216	45.9	410.4	35.2	70.1	282.0	759.9	697.9	1 461.9	25.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	204	43.1	385.0	33.1	65.8	265.5	711.6	664.6	1 381.0	24.3
36122	POWER AND DISTRIBUTION TRANSFORMERS, EXC. PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	65	29.4	289.0	21.5	43.3	194.1	526.5	493.5	1 029.5	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	57	20.3	195.0	15.3	31.5	135.4	373.1	397.0	1 776.1	14.7
36124	FLUORESCENT LAMP BALLASTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36125	SPEC. TRANSFORMERS (EXCEPT FLUOR. LAMP BALLASTS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	61	9.3	71.6	7.5	14.9	50.1	138.8	107.5	241.6	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	41	2.9	19.8	2.4	4.5	13.9	47.2	28.2	72.4	.6
36127	POWER REGULATORS, BOOSTERS, ETC., AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	10	.8	8.3	.6	1.2	5.6	16.7	18.7	35.6	.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	.2	2.1	.2	.3	1.2	3.1	2.7	5.5	.2
3613	SWITCHGEAR AND SWITCHBOARD APPARATUS										
	ENTIRE INDUSTRY . . . . .	568	68.9	615.4	49.5	96.8	387.3	1 298.7	840.8	2 115.0	36.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	510	56.3	505.8	41.5	80.6	330.5	1 107.1	703.5	1 787.1	31.0
36131	SWITCHGEAR, EXCEPT DUCTS AND RELAYS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	102	21.4	215.1	14.2	27.4	127.3	406.7	259.1	659.3	9.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	65	13.0	133.9	9.1	17.8	83.7	268.3	151.7	418.5	6.7
36132	POWER CIRCUIT BREAKERS, ALL VOLTAGES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	8	4.7	50.1	3.3	6.3	31.6	80.3	65.0	143.2	4.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36133	LOW VOLTAGE PANELBOARDS, ETC., 750 VOLTS AND LESS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	146	17.3	154.0	12.5	24.5	99.0	342.7	295.7	635.9	10.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	97	9.7	81.8	7.0	13.3	53.4	188.1	175.5	360.5	5.7
36134	FUSES AND FUSE EQUIPMENT, UNDER 2300 VOLTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	11	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	11	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36135	MOLDED CASE CIRCUIT BREAKERS, 750 VOLTS AND UNDER (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	12	8.5	70.7	6.8	12.9	49.6	214.4	84.2	288.8	4.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	9	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36136	DUCT, PLUG-IN UNITS, ACCESS., 750 VOLTS AND LESS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	9	1.4	11.6	1.0	2.2	6.5	26.9	19.7	47.3	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36137	RELAYS, CONTROL CIRCUIT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	51	9.4	66.9	6.9	13.2	38.6	122.8	65.2	183.9	3.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	29	5.0	36.0	3.9	7.3	23.7	68.7	33.0	99.3	2.2
3621	MOTORS AND GENERATORS										
	ENTIRE INDUSTRY . . . . .	426	90.6	767.1	69.3	139.5	517.6	1 483.9	1 061.8	2 516.0	59.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	381	76.3	641.0	59.4	118.9	440.3	1 242.1	879.4	2 096.7	48.7
36211	FRACTIONAL HORSEPOWER MOTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	125	44.6	361.0	35.9	70.3	256.3	724.7	492.0	1 199.1	27.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	92	32.4	251.8	27.1	53.0	187.8	532.1	383.6	901.5	21.6
36212	INTEGRAL HP MOTORS, GENERATORS, EXC. LAND TRANS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	55	21.4	203.8	15.3	32.6	131.0	371.0	272.2	638.2	13.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	34	7.9	73.7	5.7	10.9	47.3	135.0	102.1	233.7	5.3
36213	LAND TRANSPORTATION MOTORS, GENERATORS, PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	11	3.0	29.0	1.4	2.9	12.6	30.9	29.8	65.6	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36214	PRIME MOVER GENERATOR SETS, EXC. STEAM, HYDRAULIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	4.1	37.7	3.0	6.1	22.1	74.5	68.5	143.0	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	14	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36217	MOTOR-GENERATOR SET, OTH. ROTATING EQUIP. (FRAC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	7.6	57.1	6.3	12.9	42.8	125.3	78.9	193.9	4.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	6.2	46.2	5.4	11.1	36.1	101.9	62.8	159.6	4.2
36218	MOTOR-GENERATOR SET, OTH. ROTATING EQUIP. (INTEG) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	15	3.7	31.2	3.0	5.5	21.9	58.8	64.8	119.5	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	12	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36219	PARTS, SUPPLIES FOR MOTORS, GENERATORS, SETS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	3.2	26.4	2.1	4.4	15.6	47.6	38.8	89.2	3.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	2.0	17.6	1.5	3.2	11.7	35.2	23.5	58.5	1.1
3622	INDUSTRIAL CONTROLS										
	ENTIRE INDUSTRY . . . . .	579	49.3	451.8	32.1	64.0	249.0	876.1	534.7	1 373.0	45.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	524	29.7	266.4	18.9	36.0	137.2	559.5	345.4	890.5	31.0

See footnote at end of table.



TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3623	WELDING APPARATUS, ELECTRIC										
	ENTIRE INDUSTRY . . . . .	166	15.5	173.9	9.8	20.9	102.5	353.5	314.2	659.6	11.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	144	11.8	135.2	7.8	16.5	84.3	257.3	257.6	511.9	9.0
36231	ARC WELDING MACHY, PTS., ACCESS., EXC. ELECTRODES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	38	5.7	52.0	3.7	7.9	29.8	124.0	100.2	216.6	4.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	26	2.6	25.6	1.9	3.9	15.5	48.9	45.5	92.0	2.5
36232	ARC WELDING ELECTRODES, METAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	19	5.0	69.5	3.0	6.6	41.7	137.9	146.9	284.2	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	14	1.7	16.0	1.1	2.2	10.0	33.2	47.5	79.9	1.2
36233	RESISTANCE WELDERS, COMPO., ACCESS., ELECTRODES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	42	4.1	46.9	2.6	5.6	27.8	79.8	58.1	138.3	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	32	2.3	26.9	1.6	3.5	17.4	49.3	38.8	88.8	1.5
3624	CARBON AND GRAPHITE PRODUCTS										
	ENTIRE INDUSTRY . . . . .	72	11.3	99.6	8.6	16.7	70.9	217.4	158.2	377.4	20.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	64	9.9	86.8	7.5	14.5	61.5	195.7	146.1	343.5	19.8
36241	ELECTRODES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	8	3.6	33.7	2.8	5.3	25.1	81.0	84.0	164.5	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36249	ALL OTHER CARBON AND GRAPHITE PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	42	7.0	57.9	5.2	10.3	40.1	123.3	68.4	194.2	12.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	32	4.3	37.7	3.2	6.5	25.1	82.7	42.7	125.8	6.9
3629	ELECTRICAL INDUSTRIAL APPARATUS, NEC										
	ENTIRE INDUSTRY . . . . .	259	20.2	165.4	13.5	26.1	89.6	270.8	187.7	450.5	11.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	235	15.5	126.7	10.4	20.0	67.8	211.1	135.9	339.5	10.2
36291	CAPACITORS FOR INDUSTRIAL USE (NOT ELECTRONIC) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	10	5.9	49.2	4.1	7.8	28.9	75.9	60.1	135.2	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	2.6	22.4	1.9	3.7	13.7	40.1	29.4	69.1	1.6
36292	RECTIFYING APPARATUS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	49	6.7	58.2	3.7	7.3	24.3	92.9	56.3	144.5	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	41	3.9	31.0	2.8	5.6	18.8	62.0	42.5	101.7	2.0
36293	OTHER ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	83	6.3	47.6	4.8	9.2	30.1	82.2	58.9	139.0	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	69	5.3	39.0	4.1	7.9	25.2	67.0	44.4	108.8	1.7

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3612	Transformers.....1972..	1,461.9	1,387.4	55.4	19.1	96	1,436.1	1,387.4	48.7	97
	.....1967..	1,188.4	1,113.3	60.1	15.0	95	1,133.6	1,113.3	20.3	98
3613	Switchgear and switchboard apparatus.....1972..	2,115.0	1,840.5	183.3	91.2	91	2,058.8	1,840.5	218.3	89
	.....1967..	1,690.0	1,435.1	177.6	77.3	89	1,598.5	1,435.1	163.4	90
3621	Motors and generators.....1972..	2,516.0	2,144.8	216.5	154.7	91	2,635.7	2,144.8	490.9	81
	.....1967..	2,402.3	1,926.6	383.4	92.3	83	2,319.0	1,926.8	392.4	83
3622	Industrial controls.....1972..	1,373.0	1,044.1	271.1	57.8	79	1,245.6	1,044.1	201.5	84
	.....1967..	1,102.8	872.7	183.3	46.8	83	1,071.4	872.7	198.7	81
3623	Welding apparatus, electric.....1972..	659.6	524.4	98.0	37.2	84	570.0	524.4	45.6	92
	.....1967..	493.3	406.7	40.5	46.1	91	432.9	406.7	26.2	94
3624	Carbon and graphite products.....1972..	377.4	328.6	48.8		95	335.9	328.6	7.3	98
	.....1967..	296.4	282.5	12.7	1.2	96	295.8	282.5	13.3	96
3629	Electrical industrial apparatus, n.e.c....1972..	450.5	355.2	63.0	32.3	85	442.9	355.2	87.7	80
	.....1967..	328.8	268.2	50.2	11.6	84	398.5	268.2	130.3	67

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Transformers (SIC 3612)	Switchgear and switchboard apparatus (SIC 3613)	Motors and generators (SIC 3621)	Industrial controls (SIC 3622)	Welding apparatus, electric (SIC 3623)	Carbon and graphite products (SIC 3624)	Electrical industrial apparatus, n.e.c. (SIC 3629)	Other industries
	Total value of receipts of the industry.....	(X)	1,461.9	2,115.0	2,516.0	1,373.0	659.6	377.4	450.5	(X)
	Primary products.....	(X)	-	-	-	-	-	-	-	(X)
3612	Transformers.....	1,436.1	1,387.4	(over 2)	(under 2)	(over 2)	(under 2)	-	-	34.7
36122	Power and distribution trans- formers, except parts.....	913.9	899.7	(over 2)	(under 2)	(over 2)	(under 2)	-	-	(over 2)
36124	Fluorescent lamp ballasts....	160.6	160.6	-	-	-	-	-	-	-
36125	Specialty transformers, ex- cept fluorescent lamp bal- lasts.....	225.3	199.5	(under 2)	-	(under 2)	-	-	-	(over 2)
36127	Power regulators, boosters, etc., and parts.....	111.4	104.3	(under 2)	-	(under 2)	(under 2)	-	-	(over 2)
36120	Transformers, n.s.k.....	24.9	23.4	-	(under 2)	-	-	-	-	(under 2)
3613	Switchgear and switchboard apparatus.....	2,058.8	(over 2)	1,840.5	(over 2)	76.9	-	-	(over 2)	106.8
36131	Switchgear, except ducts and relays.....	597.1	(over 2)	540.8	(under 2)	5.3	-	-	(over 2)	26.9
36132	Power circuit breakers, all voltages.....	182.7	-	171.5	-	(under 2)	-	-	(over 2)	(over 2)
36133	Low voltage panel boards, etc., 750 volts and under...	539.0	(under 2)	489.1	(over 2)	(over 2)	-	-	-	32.3
36134	Fuses and fuse equipment under 2300 volts.....	99.7	-	86.6	-	.1	-	-	-	13.0
36135	Molded case circuit breakers, 750 volts and under.....	283.0	-	261.8	-	9.8	-	-	-	11.4

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Transformers (SIC 3612)	Switchgear and switchboard apparatus (SIC 3613)	Motors and generators (SIC 3621)	Industrial controls (SIC 3622)	Welding apparatus, electric (SIC 3623)	Carbon and graphite products (SIC 3624)	Electrical industrial apparatus, n.e.c. (SIC 3629)	Other industries
	Value of receipts of the industry--Continued									
3613	Primary products--Continued									
36136	Switchgear and switchboard apparatus--Continued									
	Duct, including plug-in units, accessories, 750 volts and under.....	65.7	-	59.0	-	(over 2)	-	-	-	(over 2)
36137	Relays, control circuit.....	223.4	-	166.2	-	43.2	-	-	(under 2)	(over 2)
36130	Switchgear and switchboard apparatus, n.s.k.....	68.2	-	65.5	-	(under 2)	-	-	-	(over 2)
3621	Motors and generators.....	2,635.7	(under 2)	(over 2)	2,144.8	11.9	(over 2)	-	(over 2)	453.9
36211	Fractional horsepower motors...	1,137.7	-	-	999.6	(over 2)	(Z)	-	(under 2)	173.8
36212	Integral horsepower motors and generators, except land transportation equipment.....	567.7	-	-	491.0	-	(over 2)	-	-	(over 2)
36213	Land transportation motors, generators, and parts.....	106.3	-	(over 2)	54.8	-	-	-	(under 2)	(over 2)
36214	Prime mover generator sets, except steam or hydraulic.....	247.3	-	-	116.2	-	-	-	-	131.1
36217	Motor-generator sets and other rotating equipment (fractional).....	228.8	-	(under 2)	195.4	(under 2)	-	-	-	31.1
36218	Motor-generated sets and other rotating equipment (integral).....	122.9	-	-	118.9	-	-	-	-	4.0
36219	Parts and supplies for motor-generator, sets, except land transportation equipment.....	188.6	-	-	134.9	(over 2)	-	-	-	(over 2)
36210	Motors and generators, n.s.k....	36.4	(under 2)	-	34.0	(under 2)	(under 2)	-	-	(under 2)
36220	Industrial controls.....	1,245.6	(under 2)	68.1	7.2	1,044.1	(under 2)	-	(under 2)	124.1
3623	Welding apparatus, electric.....	570.0	-	-	-	-	524.4	-	-	45.6
36231	Arc welding machines, components, and accessories, except electrodes.....	218.5	-	-	-	-	197.4	-	-	21.1
36232	Arc welding electrodes, metal..	215.5	-	-	-	-	201.7	-	-	13.8
36233	Resistance welders, components, accessories, and electrodes...	115.1	-	-	-	-	105.3	-	-	9.8
36230	Welding apparatus, electric, n.s.k.....	20.9	-	-	-	-	19.9	-	-	1.0
3624	Carbon and graphite products....	335.9	-	(under 2)	-	-	(under 2)	328.6	(under 2)	(over 2)
36241	Electrodes.....	136.9	-	-	-	-	(under 2)	135.5	-	(under 2)
36249	All other carbon and graphite products.....	193.8	-	(under 2)	-	-	-	188.8	(under 2)	(over 2)
36240	Carbon and graphite products, n.s.k.....	5.2	-	-	-	-	-	4.3	(under 2)	(under 2)
3629	Electrical industrial apparatus, n.e.c.....	442.9	-	(over 2)	4.8	(over 2)	(over 2)	(under 2)	355.2	56.4
36291	Capacitors for industrial use, electronic.....	112.4	-	-	-	-	-	(under 2)	94.4	(over 2)
36292	Rectifying apparatus.....	152.6	-	(over 2)	2.7	(over 2)	(under 2)	(under 2)	117.6	15.2
36293	Other electrical equipment for industrial use.....	145.9	-	(under 2)	2.2	(under 2)	(over 2)	(under 2)	111.9	22.4
36290	Carbon and graphite products, n.s.k.....	32.0	-	-	-	-	(under 2)	-	31.3	(under 2)
	Other product shipments by 4-digit product group:									
2899	Chemical preparations, n.e.c....	(X)	-	-	-	-	(10-20)	-	-	(X)
3079	Miscellaneous plastics products	(X)	-	-	(under 2)	(under 2)	-	-	(5-10)	(X)
3315	Steel wire and related products	(X)	-	-	-	-	(5-10)	-	-	(X)
3351	Copper rolling and drawing....	(X)	-	-	-	(10-20)	-	-	-	(X)
3357	Nonferrous wiredrawing and insulating.....	(X)	-	(under 2)	(10-20)	-	-	-	(under 2)	(X)
3369	Nonferrous foundries, n.e.c....	(X)	-	-	(under 2)	(under 2)	(2-5)	-	-	(X)
3399	Primary metal products, n.e.c..	(X)	-	-	-	-	(2-5)	(2-5)	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3444	Sheet metal work.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(under 2)	(under 2)	(under 2)	(under 2)	-	(2-5)	(under 2)	(X)
3479	Metal coating and allied services.....	(X)	-	(under 2)	-	(20-50)	-	-	(under 2)	(X)
3494	Valves and pipe fittings.....	(X)	-	11.0	(under 2)	(under 2)	(under 2)	-	-	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Transformers (SIC 3612)	Switchgear and switchboard apparatus (SIC 3613)	Motors and generators (SIC 3621)	Industrial controls (SIC 3622)	Welding apparatus, electric (SIC 3623)	Carbon and graphite products (SIC 3624)	Electrical industrial apparatus, n.e.c. (SIC 3629)	Other industries
	Value of receipts of the industry--Continued									
	Other product shipments by 4-digit product group:									
3495	Wire springs.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	-	-	(under 2)	(5-10)	(under 2)	-	(X)
3498	Fabricated pipe and fittings...	(X)	-	-	(2-5)	-	-	-	(under 2)	(X)
3499	Fabricated metal products, n.e.c.	(X)	(under 2)	-	-	(20-50)	-	-	(under 2)	(X)
3511	Turbines and turbine generator sets.....	(X)	-	-	(10-20)	-	-	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	-	-	(10-20)	-	-	-	-	(X)
3536	Hoists, cranes, and monorails..	(X)	-	-	(5-10)	-	-	-	-	(X)
3541	Machine tools, metal-cutting types.....	(X)	-	(under 2)	(2-5)	-	(under 2)	-	-	(X)
3542	Machine tools, metal-forming types.....	(X)	-	-	-	-	5.1	-	-	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	-	-	(2-5)	(under 2)	(under 2)	(under 2)	(under 2)	(X)
3545	Machine tool accessories.....	(X)	-	-	(under 2)	-	-	-	-	(X)
3547	Rolling mill machinery.....	(X)	-	-	-	-	(2-5)	-	-	(X)
3549	Metalworking machinery, n.e.c..	(X)	-	-	-	-	(10-20)	-	-	(X)
3555	Printing trades machinery.....	(X)	-	-	-	(2-5)	(under 2)	-	(under 2)	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	-	(under 2)	-	(2-5)	-	(under 2)	(X)
3561	Pumps and pumping equipment...	(X)	(under 2)	-	(20-50)	(under 2)	-	-	-	(X)
3566	Speed changers, drives, and gears.....	(X)	-	(under 2)	(20-50)	(under 2)	(under 2)	-	-	(X)
3567	Industrial furnaces and ovens..	(X)	-	(under 2)	(under 2)	-	(2-5)	-	-	(X)
3574	Calculating and accounting machines.....	(X)	-	(under 2)	-	(2-5)	-	-	-	(X)
3576	Scales and balances, except laboratory.....	(X)	-	-	-	-	-	-	(2-5)	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	-	(under 2)	(Z)	(under 2)	(under 2)	(2-5)	(under 2)	(X)
3636	Sewing machines.....	(X)	-	-	(2-5)	-	-	-	-	(X)
3643	Current-carrying wiring devices	(X)	(under 2)	(10-20)	-	(10-20)	(2-5)	(2-5)	(2-5)	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	(under 2)	12.2	-	(under 2)	-	-	-	(X)
3646	Commercial lighting fixtures...	(X)	-	(2-5)	-	(under 2)	(under 2)	-	-	(X)
3662	Radio and TV communication equipment.....	(X)	(under 2)	8.3	(2-5)	(2-5)	(under 2)	-	(under 2)	(X)
3675	Electronic capacitors.....	(X)	-	-	-	(under 2)	-	-	18.2	(X)
3676	Electronic resistors.....	(X)	-	(Z)	-	(20-50)	-	(2-5)	-	(X)
3677	Electronic coils and transformers.....	(X)	4.2	-	(under 2)	(2-5)	-	-	2.3	(X)
3679	Electronic components, n.e.c...	(X)	(10-20)	1.5	1.3	(2-5)	(under 2)	-	(2-5)	(X)
3694	Engine electrical equipment....	(X)	-	(2-5)	(10-20)	(2-5)	(2-5)	-	1.8	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	5.3	(10-20)	(2-5)	-	-	-	(X)
3724	Aircraft engines and engine parts.....	(X)	-	-	(5-10)	-	-	-	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	(2-5)	(under 2)	(under 2)	-	-	-	(X)
3811	Engineering and scientific instruments.....	(X)	-	-	5.6	.5	-	-	-	(X)
3822	Environmental controls.....	(X)	(under 2)	(10-20)	-	(5-10)	-	-	-	(X)
3825	Instruments to measure electricity.....	(X)	(under 2)	10.8	(under 2)	1.1	-	-	(under 2)	(X)
3873	Watches, clocks, and watchcases	(X)	-	(under 2)	(2-5)	-	-	-	(under 2)	(X)
3915	Jewelers' materials, lapidary work.....	(X)	-	-	-	(2-5)	-	-	-	(X)
	Miscellaneous receipts.....	(X)	19.1	91.2	154.7	57.8	37.2	(20-50)	32.3	(X)
93000 00	Contract work.....	(X)	(under 2)	1.7	37.8	1.9	.8	-	4.1	(X)
99980 00	Miscellaneous receipts, including repair work.....	(X)	(under 2)	(X)	(X)	(X)	(X)	(under 2)	(over 2)	(X)
99980 13	Sale of scrap and refuse.....	(X)	3.9	5.9	11.7	4.3	(X)	(X)	(X)	(X)
99980 61	Repair work.....	(X)	(X)	(under 2)	19.5	9.0	3.0	(X)	(X)	(X)
99980 98	Other miscellaneous receipts...	(X)	(over 2)	(over 2)	40.9	8.5	10.1	(X)	(X)	(X)
99989 00	Resales.....	(X)	6.0	79.8	44.7	34.1	23.3	(over 2)	(over 2)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3612	3648 Lighting equipment, n.e.c.....	(2-5)	3621	3764 Space propulsion units and parts.....	(5-10)
	3677 Electronic coils and transformers.....	6.0		3822 Environmental controls.....	(5-10)
	3693 X-ray apparatus and tubes.....	(2-5)		3873 Watches, clocks, and watchcases.....	18.6
	3825 Instruments to measure electricity.....	(10-20)		3949 Sporting and athletic goods, n.e.c.....	(2-5)
3613	3511 Turbines and turbine generator sets.....	(5-10)	3622	3429 Hardware, n.e.c.....	(5-10)
	3643 Current-carrying wiring devices.....	54.2		3494 Valves and pipe fittings.....	(10-20)
	3644 Noncurrent-carrying wiring devices.....	14.0		3511 Turbines and turbine generator sets.....	(2-5)
	3661 Telephone and telegraph apparatus.....	(2-5)		3564 Blowers and fans.....	(2-5)
	3662 Radio and TV communication equipment.....	5.6		3643 Current-carrying wiring devices.....	(20-50)
	3674 Semiconductors and related devices.....	(2-5)		3644 Noncurrent-carrying wiring devices.....	(2-5)
	3675 Electronic capacitors.....	(2-5)		3651 Radio and TV receiving sets.....	(2-5)
	3699 Electrical equipment and supplies, n.e.c.....	2.3		3661 Telephone Telegraph apparatus.....	11.1
	3825 Instruments to measure electricity.....	5.0		3662 Radio and TV communication equipment.....	9.0
	3873 Watches, clocks, and watchcases.....	4.5		3728 Aircraft equipment, n.e.c.....	(2-5)
3621	3351 Copper rolling and drawing.....	(2-5)		3822 Environmental controls.....	(10-20)
	3511 Turbines and turbine generator sets.....	(20-50)		3823 Process control instruments.....	4.6
	3519 Internal combustion engines, n.e.c.....	84.8		3825 Instruments to measure electricity.....	20.5
	3531 Construction machinery.....	(10-20)			
	3532 Mining machinery.....	(5-10)	3623	3544 Special dies, tools, jigs and fixtures.....	(2-5)
	3553 Woodworking machinery.....	(2-5)		3673 Electron tubes, transmitting.....	(2-5)
	3561 Pumps and pumping equipment.....	(10-20)		3691 Storage batteries.....	(10-20)
	3563 Air and gas compressors.....	(2-5)		3842 Surgical appliances and supplies.....	(2-5)
	3564 Blowers and fans.....	(5-10)			
	3566 Speed changers, drives, and gears.....	6.9	3624	2869 Industrial organic chemicals, n.e.c.....	(over 2)
	3634 Electric housewares and fans.....	(2-5)		3559 Special industry machinery, n.e.c.....	(2-5)
	3635 Household vacuum cleaners.....	(5-10)		3648 Lighting equipment, n.e.c.....	(5-10)
	3662 Radio and TV communication equipment.....	(5-10)		3675 Electronic capacitors.....	(10-20)
	3679 Electronic components, n.e.c.....	4.0		3694 Engine electrical equipment.....	(5-10)
	3694 Engine electrical equipment.....	80.9		3724 Aircraft engines and engine parts.....	(5-10)
	3714 Motor vehicle parts and accessories.....	(50-100)		3825 Instruments to measure electricity.....	(5-10)
	3728 Aircraft equipment, n.e.c.....	5.3			
	3743 Railroad equipment.....	(50-100)			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972			1967		
		Quantity	Total KVA	Value	Quantity	Total KVA	Value
		(1,000 units)	(millions)	(million dollars)	(1,000 units)	(millions)	(million dollars)
3612- --	TRANSFORMERS, TOTAL.....	(X)	(X)	1,436.1	(X)	(X)	1,161.0
36122 --	Power and Distribution Transformers, Except Parts.....	(X)	(X)	913.9	(X)	(X)	790.3
	Distribution transformers, liquid-immersed, all voltages and dry-type electric utility distribution transformers, excluding general-purpose transformers:						
	Overhead or pole top transformers:						
36122 02	100 KVA and below, single phase.....	1,215.4	(NA)	263.6	1,194.0	17.7	357.3
36122 04	101 KVA through 500 KVA, single phase.....	26.3	5.8	25.5			
36122 05	500 KVA and below, three phase.....	11.7	(NA)	8.6			
36122 11	Compartmentalized pad-mounted transformers, single phase, 500 KVA and smaller.....	172.7	(NA)	82.3			
36122 14	Subsurface, underground, and conventional subway-type transformers, single phase, 500 KVA and below.....	32.2	1.7	18.7	37.4	19.3	134.4
36122 19	Compartmentalized pad-mounted transformers and subsurface, underground, and conventional subway-type transformers, three phase, 500 KVA and smaller.....	26.7	6.0	47.1			
36122 21	Small power transformers, single and three phase, all voltages: Compartmentalized pad-mounted transformers and subsurface, underground, and conventional subway-type transformers, self-cooled equivalent ratings of 501 KVA through 2,500 KVA, liquid-immersed.....	5.9	6.5	26.6			
36122 22	Conventional transformer and auto-transformers, with and without load tap changing, primary unit substation transformers and single-circuit unit substations:						
36122 22	Liquid-immersed, self-cooled equivalent ratings of 501 KVA through 2,500 KVA.....	5.1	(NA)	34.6	6.4	13.4	45.9
36122 24	Liquid-immersed, self-cooled equivalent ratings of 2,501 KVA through 10,000 KVA.....	2.0	12.7	46.1			
36122 26	Dry-type, self-cooled equivalent ratings of 501 KVA through 10,000 KVA, including dry-type compartmentalized pad-mounted transformers:						
36122 28	Complete apparatus.....	4.3	(NA)	13.3			
	Core and coils.....	1.2	(NA)	1.5	1.2	.4	16.2
36122 32	Secondary unit substation transformers, single and three phase, all KVA ratings, all high voltages, low voltages below 1,000 volts (units sold with or without secondary switching equipment but with a flange or throat for connection to such equipment):						
36122 32	Liquid-immersed.....	3.4	(NA)	25.6			
36122 33	Dry type, complete apparatus.....	11.6	(NA)	18.1			
36122 34	Dry type, core and coil.....	.9	(NA)	5.2	(NA)	(NA)	229.3
36122 35	Large power transformers, single and three phase, liquid-immersed and dry type, all voltages, including primary unit substation transformers, all ratings of regulating transformers, and all other transformers (KVA rating based on self-cooling nameplate ratings for OA/FA, or OA/FA/FA or OA/FOA/FOA).....						
36122 35	Network transformers, liquid-immersed and dry type, all ratings, less network protector.....	3.4	(NA)	268.9			
36122 36	Self-cooled equivalent ratings of 10,001 KVA through 25,000 KVA.						
36122 38	Self-cooled equivalent ratings of 25,001 KVA and above.....				(X)	(X)	7.2
36122 00	Power and distribution transformers, n.s.k.....	(X)	(X)	28.2			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers				
			1972		1967		
			Quantity	Value (million dollars)	Quantity	Value (million dollars)	
36124 --	Fluorescent Lamp Ballasts:						
36124 00	As reported in census of manufactures.....	Million units.	51.6	160.6	42.1	118.8	
	As reported in Current Industrial Reports series MQ-36C.....	..do.....	55.0	163.0	45.2	117.0	
	Uncorrected power factor type:						
	Switch start 40 watt and under:						
36124 61	20 watt and less.....	..do.....	4.0	4.0	7.7	3.1	
36124 62	21 to 40 watt.....	..do.....	1.8	1.8	2.1	1.7	
36124 66	Other, including rapid start.....	..do.....	7.6	7.7	3.5	5.4	
	Corrected power factor type:						
	Slimline and instant start:						
36124 67	Two lamp 96T12 and 72T12.....	..do.....	33.9	34.4	6.1	20.2	
36124 68	Other.....	..do.....	5.2	5.3	1.0	4.8	
	Rapid start:						
36124 71	Two lamp 40 watt.....	Million units.	68.6	69.6	19.1	44.5	
	All other rapid start:						
36124 72	800- 1,000 MA.....	..do.....	20.1	20.3	1.8	14.9	
36124 73	1,500 MA.....	..do.....	17.0	17.3	1.1	13.4	
36124 74	Other.....	..do.....			1.5	5.0	

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3612- --	TRANSFORMERS--Continued Fluorescent Lamp Ballasts--Continued As reported in Current Industrial Reports series MQ-36C--Con.  Corrected Power Factor Type: Switch start:					
36124 75	20 watt and less.....	Million units.	(D)	(D)	(D)	(D)
36124 76	21 to 40 watt: Two lamp 40 watt.....	..do.....	.9	.9	.6	1.7
36124 77	Other 21 to 40 watt.....	..do.....	.2	.2	.1	.5
36124 78	Above 40 watt.....	..do.....	(D)	(D)	(Z)	.4
36124 79	All other corrected power factor type.....	..do.....	(D)	(D)	(D)	(D)
36125 --	Specialty Transformers (Except Fluorescent Lamp Ballasts).....		(X)	225.3	(X)	116.4
36125 13	Signalling, doorbell and toy transformers.....	Million units.			2.4	6.8
36125 15	Control transformers, 250 VA and smaller, except machine tool applications.....	.....	3.0	9.3	.3	1.6
36125 17	Machine tool control transformers.....	Million units.	.6	8.3	.6	5.3
36125 21	Luminous tube transformers for hot and cold operation (1,000 volts and above).....	..do.....	1.7	8.1	.6	5.8
36125 31	Ignition, including oil- and gas-furnace ignition applications, but excluding internal combustion engine ignition.....	..do.....	1.2	8.4	1.0	6.1
36125 42	Series circuit lighting transformers.....	..do.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
36125 43	Mercury vapor lamp transformers, also known as ballasts, multiple-supply type: Core and coil units.....	..do.....	8.8	34.9	.6	6.1
36125 47	Indoor encased units.....	..do.....	4.2	13.8	.5	6.5
36125 49	Outdoor weather-proof units.....	..do.....				
36125 53	Sodium vapor lamp transformers, also known as ballasts, multiple-supply type.....	..do.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
36125 60	Instrument transformers: As reported in census of manufactures.....	.....	(X)	( <sup>2</sup> )	(X)	27.5
36125 61	As reported in Current Industrial Reports Series MA-38B.....	.....	(X)	(D)	(X)	27.5
36125 63	5 KVA and under.....	.....	(X)	(D)	(X)	10.3
36125 63	Over 5 KVA.....	.....			(X)	17.2
36125 81	Commercial, institutional, and industrial general-purpose transformers, all voltages, single and three phase (excluding electric utility distribution transformers): 0.250 KVA through 3 KVA.....	Million units.	1.2	11.5	1.2	8.6
36125 83	3.01 KVA through 15 KVA.....	..do.....	.2	11.0		
36125 84	15.01 KVA through 100 KVA.....	..do.....	2.1	16.2	2.1	24.1
36125 87	100.01 KVA through 500 KVA.....	..do.....	(NA)	5.0		
36125 89	Saturable core reactors.....	..do.....	(NA)	3.2	1.0	2.0
36125 93	Voltage regulating transformers, except transmission and distribution voltage regulators.....	..do.....	.5	7.7	4.9	11.2
36125 98	Miscellaneous specialty transformers and reactors, n.e.c., except for electronic applications.....	..do.....	(NA)	120.0	(X)	19.6
36125 99	Specialty transformers, n.s.k.....	..do.....	(X)	267.9	(X)	1.2
36127 --	Power Regulators, Boosters, Reactors, Other Transformers, and Transformer Parts.....		(X)	111.4	(X)	120.6
36127 13	Transmission and distribution voltage regulators, single and three phase: Induction voltage regulators, all KVA ratings, 1,201 volts and above.....	.....			(X)	12.4
36127 53	Step voltage regulators, 1,201 through 69,000 volts, 250 KVA and smaller (single phase), 2,500 KVA and smaller (three phase).....	.....	(NA)	33.2	(X)	21.3
36127 31	Reactor and special purpose transformers, liquid-immersed and dry type, all voltages and KVA: Reactors, furnace transformers, rectifier transformers, loco- motive transformers, grounding transformers, ground fault neutralizers, mobile transformers, and mobile unit substation, and integral single-circuit unit substations.....	.....			(X)	39.2
36127 73	Renewal and repair parts for all specialty transformers.....	.....	(X)	69.6	(X)	1.3
36127 77	Parts and accessories for all transformers, except specialty transformers.....	.....			(X)	39.2
36127 00	Transformers, parts and supplies, power regulators, boosters, and reactors, n.s.k.....	.....	(X)	8.6	(X)	7.2
36120 00	Transformers, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	20.4	(X)	12.5
36120 02	Transformers, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	4.5	(X)	2.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3613- --	SWITCHGEAR AND SWITCHBOARD APPARATUS, TOTAL.....	2,058.8	1,598.5
	Switchgear, Except Ducts and Relays:		
36131 00	As reported in census of manufactures.....	597.1	445.7
	As reported in Current Industrial Reports Series MA-36A.....	564.1	441.5
36131 11	Automatic and manual panels (generator, transformers, feed-control, etc.).....	33.4	18.1
36131 12	Metal enclosed switchgear (using power circuit breakers, oil and oilless). All voltages above 600 volts up to and including 72 k.v.....	175.3	130.0
36131 13	Metal enclosed low-voltage switchgear assemblies (using power circuit breakers) 600 volts and below	79.9	73.8
36131 17	Metal enclosed bus bar structures, over 750 volts, for sale separately.....	11.1	4.9
36131 31	Relays (except instrument and circuit), regulators, and miscellaneous switchboard devices, for sale separately.....	75.6	60.7
	Power switching equipment (including attachment, auxiliaries, bus supports and fittings, and accessories, but excluding power fuses sold separately):		
36131 41	Outdoor.....	87.1	82.6
36131 45	Indoor.....	5.1	5.9
36131 81	Power and ground connectors generally used in substation construction.....	r 52.0	31.3
36131 91	Overhead transmission and distribution connectors (clamps, taps, terminals, and splices).....		
36131 93	Transmission and distribution connectors, n.e.c., including underground deadends, hotline taps, stirrups, repair sleeves, etc.....	r 31.0	33.8
36131 83	Distribution cut-outs.....		
36131 51	Power and distribution fuses and fuse links for 2,300 volts and over, a.c. service (excluding distribution cut-outs).....	r 13.6	
	Power Circuit Breakers, All Voltages:		
36132 00	As reported in census of manufactures.....	182.7	209.8
	As reported in Current Industrial Reports Series MA-36A.....	186.8	201.0
36132 43	Power circuit breakers (sold separately) and three-phase automatic circuit reclosers (all voltages).....	172.2	201.0
	Low voltage panelboards, distribution boards, and other switching and interrupting devices, 750 volts and under:		
36133 00	As reported in census of manufactures.....	539.0	378.0
	As reported in Current Industrial Reports Series MA-36A.....	555.3	332.8
	Panelboards, including enclosing cabinets:		
36133 11	Fusible, including combination switch and fuse.....	52.8	39.9
36133 12	Circuit breaker.....	78.6	60.8
	Distribution switchboards:		
36133 15	Fusible.....	41.3	25.6
36133 17	Circuit breaker.....	54.4	36.9
36133 19	Other, including theater switchboards.....	12.0	13.7
36133 20	Knife switches, open and enclosed.....	63.1	42.6
	Load centers:		
36133 24	Enclosed fusible, service entrance, and branch circuit cut-outs.....	11.6	9.1
36133 26	Circuit breaker type.....	93.3	31.3
36133 29	Other switches (excluding snap, toggle, push, etc., but including meter service equipment, other than meter mounting and test devices).....	30.6	30.4
36133 98	Other switchgear and switchboard apparatus.....	117.6	42.1
	Fuses and Fuse Equipment, Under 2300 Volts:		
36134 00	As reported in census of manufactures.....	99.7	69.2
	As reported in Current Industrial Reports Series MA-36A.....	92.4	65.3
36134 31	Nonrenewable plug fuses.....	13.5	9.4
36134 51	Nonrenewable cartridge fuses.....	45.3	33.1
36134 71	Renewable plug and cartridge fuses (including renewal links).....	7.6	6.1
36134 93	Other fuses and open fuse material (including cut-outs, clips, bases, etc.).....	26.0	16.5
	Molded Case Circuit Breakers, 750 Volts and Under:		
36135 00	As reported in census of manufactures.....	283.0	170.2
	As reported in Current Industrial Reports Series MA-36A.....	283.1	166.4
36135 11	Industrial type-assembled as complete units in supporting and enclosing housing of insulating materials.....	112.7	122.5
36135 12	Residential or light duty type (primarily for load center application, assembled as complete units in supporting and enclosing housing of insulating materials).....	110.9	
36535 31	Individually enclosed industrial type (excluding panelboards and busway plugs).....	r 25.2	8.8
36135 32	Enclosed individual or group of molded case circuit breakers in a single cabinet intended to function as service equipment.....		
36135 98	Other molded case circuit breakers.....	34.3	35.0

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)				
		1972	1967			
3613- --	SWITCHGEAR AND SWITCHBOARD APPARATUS--Continued					
	Duct, Including Plug-In Units and Accessories, 750 Volts and Under:					
36136 00	As reported in census of manufactures.....	65.7	62.8			
	As reported in Current Industrial Reports Series MA-36A.....	60.3	62.6			
36136 11	Busways.....	60.3	62.6			
36136 31	Trolley-type and lighting distribution duct.....					
	Relays, Control Circuit:					
36137 00	As reported in census of manufactures.....	223.4	193.7			
	As reported in Current Industrial Reports Series MA-36A.....	212.5	186.0			
36137 01	A.c. and d.c. magnetic control circuit relays, excluding overload relays.....	197.4	171.8			
36137 03	Overload relays.....	15.1	14.1			
36130 00	Switchgear and switchboard apparatus, n.s.k., for establishments with 10 employees or more. (See note.).....	54.7	53.3			
36130 02	Switchgear and switchboard apparatus, n.s.k., for establishments with less than 10 employees. (See note.).....	13.5	5.9			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3621- --	MOTORS AND GENERATORS, TOTAL.....		(X)	2,635.7	(X)	2,319.0
	Fractional Horsepower Motors:					
36211 00	As reported in the census of manufactures.....		(X)	1,137.7	(X)	842.5
	As reported in Current Industrial Reports Series MA-36H.....		(X)	1,081.7	(X)	809.4
36211 01	Automobile accessory motors (including all accessory motors, such as heater, convertible top, and automatic windows, but excluding starting motors and generators).....	Million.....	38.7	251.7	28.0	145.6
	Aircraft and space motors, excluding generators:					
36211 03	A.c.....	..do.....	.1	12.8	.1	19.6
36211 04	D.c.....	..do.....	.1	8.4	.2	22.2
36211 05	Toy motors (all sizes), including those for advertising displays, etc.....	..do.....	18.5	29.8	16.0	23.3
36211 07	Clock-type synchronous and subsynchronous timing motors.....	..do.....				
	Universal motors, cased (punching diameter):					
36211 08	Less than 2-1/8" diameter.....	..do.....	.2	2.3	.2	1.1
36211 09	2-1/8" diameter and over but less than 2-7/16" diameter....	..do.....			.6	2.5
36211 10	2-7/16" diameter and over but less than 2-7/8" diameter....	..do.....	.9	5.2	.9	5.3
36211 11	2-7/8" diameter and over but less than 3-3/16" diameter....	..do.....	.6	4.0	.4	4.0
36211 12	3-3/16" diameter and over but less than 3-11/16" diameter..	..do.....	3.0	28.2	.6	7.9
36211 13	3-11/16" diameter and over but less than 4-3/8" diameter...	..do.....			1.8	16.2
36211 14	4-3/8" diameter and over.....	..do.....				
	Universal motors, uncased (punching diameter) (consisting of stator, rotor, and brush holder mechanisms, without end shields, bearings, or conventional frame, usually called "motor parts"):					
36211 15	Less than 2-1/8" diameter.....	..do.....	2.6	5.9	.2	1.5
36211 16	2-1/8" diameter and over but less than 2-7/16" diameter....	..do.....			.2	.9
36211 17	2-7/16" diameter and over but less than 2-7/8" diameter....	..do.....	.9	5.5		6.7
36211 18	2-7/8" diameter and over but less than 3-3/16" diameter....	..do.....		1.0		
36211 19	3-3/16" diameter and over but less than 3-11/16" diameter..	..do.....				
36211 20	3-11/16" diameter and over but less than 4-3/8" diameter...	..do.....				
36211 21	4-3/8" diameter and over.....	..do.....				
	Universal motors and generators, direct current (case diameter) excluding automotive starting motors, generators, and accessory motors:					
36211 22	Less than 3" diameter (up to 1/70 hp.).....	Million.....	3.6	22.9	2.7	19.5
36211 23	3" diameter and over but less than 4-5/8" diameter (1/70 hp. and over but less than 1/20 hp.).....	..do.....	.7	15.2	.1	5.4
36211 24	4-5/8" diameter and over but less than 6" diameter (1/20 hp. and over but less than 1/6 hp.).....	..do.....	.1	6.3	.1	5.2
36211 25	6" diameter and over but less than 7-1/8" diameter (1/6 hp. and over but less than 1 hp.).....	..do.....	.2	8.6	.1	7.7
36211 26	7-1/8" diameter and over but less than 9" diameter (1/6 hp. and over but less than 1 hp.).....	..do.....	(Z)	1.7	(Z)	1.7

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3621- --	MOTORS AND GENERATORS--Continued Fractional Horsepower Motors--Continued As reported in Current Industrial Reports series MA-36H--Con.					
	Universal motors, alternating current:					
	Skeleton type shaded pole motors:					
	Less than 2-3/4" diameter:					
36211 31	Less than 5 m.h.p.....	Million.....	8.4	21.4	4.3	10.7
36211 33	Over 5 m.h.p.....	...do.....				
	2-3/4" diameter and over:					
36211 35	Less than 5 m.h.p.....	...do.....	3.4	9.9	2.7	6.5
36211 37	5 m.h.p. and over but less than 35 m.h.p.....	...do.....				
36211 39	35 m.h.p. and over.....	...do.....				
	Conventional type shaded pole motors (case diameters):					
36211 41	Less than 1-1/2" diameter, all horsepower ratings built in this diameter.....	...do.....	15.8	41.3	6.9	10.3
36211 42	1-1/2" diameter and over but less than 2-1/2" diameter:					
36211 43	Less than 5 m.h.p.....	...do.....				
36211 44	5 m.h.p. and over but less than 16 m.h.p.....	...do.....	15.5	46.9	13.9	36.1
36211 45	16 m.h.p. and over but less than 1/20 hp.....	...do.....				
36211 46	1/20 hp. and over but less than 1/10 hp.....	...do.....				
36211 47	1/10 hp. and over.....	...do.....	1.6	5.7	.5	2.2
	3-3/4" diameter and over but less than 4-1/2" diameter:					
36211 49	Less than 16 m.h.p.....	...do.....	.5	3.1	.2	1.7
36211 51	16 m.h.p. and over but less than 1/20 hp.....	...do.....				
36211 52	1/20 hp. and over but less than 1/10 hp.....	...do.....				
36211 53	1/10 hp. and over.....	...do.....	.3	2.5	.1	1.3
	4-1/2" diameter and over but less than 5-1/4" diameter:					
36211 54	Less than 1/20 hp.....	...do.....	3.0	17.0	2.3	16.6
36211 55	1/20 hp. and over but less than 1/10 hp.....	...do.....				
36211 56-58	1/10 hp. and over.....	...do.....				
36211 59	5-1/4" diameter but less than 9" diameter (all hp. ratings).....	...do.....	1.4	11.9	.7	5.8
	Other a.c. motors (case diameter), including subfractional and fractional synchronous and subsynchronous timing motors, other than clock type:					
36211 61	Less than 2-1/2" diameter, all horsepower ratings built in this diameter.....	...do.....	.1	7.2	.2	11.1
	2-1/2" diameter and over but less than 3-3/4" diameter:					
36211 62	Less than 16 m.h.p.....	...do.....	.4	7.0	.9	14.0
36211 63	16 m.h.p. and over but less than 1/20 hp.....	...do.....	.3	3.8	.2	5.4
36211 64	1/20 hp. and over but less than 1/10 hp.....	...do.....	.6	6.6	.3	3.4
36211 65	1/10 hp. and over but less than 1/4 hp.....	...do.....				
36211 66	1/4 hp. and over.....	...do.....				
	3-3/4" diameter and over but less than 4-3/8" diameter:					
36211 67	Less than 16 m.h.p.....	...do.....	1.3	20.4	1.9	25.1
36211 68	16 m.h.p. and over but less than 1/20 hp.....	...do.....				
36211 69	1/20 hp. and over but less than 1/10 hp.....	...do.....				
36211 70	1/10 hp. and over but less than 1/6 hp.....	...do.....	.1	.6	.1	1.5
36211 71	1/6 hp. and over.....	...do.....				
36211 72	4-3/8" diameter and over but less than 5-3/8" diameter:					
36211 73	Less than 1/20 hp.....	...do.....	.3	2.9	.4	6.0
36211 74	1/20 hp. and over but less than 1/10 hp.....	...do.....	.9	11.0	.6	8.6
36211 75	1/10 hp. and over but less than 1/6 hp.....	...do.....	.3	4.2	.4	5.8
36211 76	1/6 hp. and over.....	...do.....	.3	5.7		
36211 81	5-3/8" diameter and over but less than 6" diameter (less than 1 hp.).....	...do.....	13.3	189.0	8.4	111.2
36211 83	6" diameter and over but less than 7-1/8" diameter (less than 1 hp.).....	...do.....	16.6	220.3	13.6	174.9
36211 85	7-1/8" diameter and over but less than 9" diameter (less than 1 hp.).....	...do.....	.1	9.1	2.1	11.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3621- --	MOTORS AND GENERATORS--Continued					
	Integral Horsepower Motors and Generators, Except for Land Transportation Equipment:					
36212 00	As reported in the census of manufactures.....		(X)	567.7	(X)	569.5
	As reported in Current Industrial Reports series MA-36H.....		(X)	548.0	(X)	584.0
	Integral horsepower motors (excluding cranking motors for internal combustion engines, propulsion motors for land transportation, motors mounted on the same shaft as arc welding generators, and hermetics):					
36212 01	Aircraft and space motors (including a.c. and d.c. but excluding generators), all integral hp. ratings.....	1,000.....	( <sup>3</sup> )	( <sup>3</sup> )	2.5	.5
	Alternating current:					
	Motors classified by case diameter:					
36212 03	5-3/8" diameter and over but less than 6" diameter (1 hp. and over).....	...do.....	995.1	32.6	134.7	3.5
36212 05	6" diameter and over but less than 7-1/8" diameter (1 hp. and over).....	...do.....				
36212 07	7-1/8" diameter and over but less than 9" diameter (1 hp. and over).....	...do.....				
36212 11	Single phase, all hp. ratings.....	...do.....	29.0	2.2	84.9	4.7
			231.7	20.6	261.9	19.0
	Polyphase-induction:					
36212 21	1 to 5 hp.....	...do.....	1,115.6	89.1	1,177.1	91.1
36212 22	5.1 to 20 hp.....	...do.....	382.6	61.2	457.8	72.7
36212 23	21 to 50 hp.....	...do.....	123.6	46.5	122.0	49.3
36212 26	51 to 125 hp.....	...do.....	46.4	41.0	54.5	48.6
36212 27	126 to 200 hp.....	...do.....	15.0	34.5	13.6	26.8
36212 28	201 to 500 hp.....	...do.....	7.1	34.7	6.9	31.1
36212 29	Over 500 hp.....	...do.....	2.3	57.2	2.4	44.2
	Synchronous motors:					
36212 31	450 r.p.m. or below (all hp. ratings).....	...do.....	.1	6.7	.3	8.6
36212 32	Above 450 r.p.m. (all hp. ratings).....	...do.....	.8	5.8	2.3	14.5
	Direct current motors and generators, excluding all arc welding generators, battery charging generators for internal combustion engines, and generators used as an integral part of land transportation equipment:					
36212 41	1 to 5 hp. (3/4-4 kw.).....	1,000.....	16.0	6.7	17.7	9.6
36212 42	5.1 to 20 hp. (4.1-15 kw.).....	...do.....	20.0	18.6	13.9	15.2
36212 43	21 to 50 hp. (16-40 kw.).....	...do.....	5.3	10.4	8.2	16.2
36212 46	51 to 200 hp. (41-150 kw.).....	...do.....	3.7	14.2	8.1	26.1
36212 47	201 to 500 hp. (151-400 kw.).....	...do.....	1.1	8.4	1.2	12.7
36212 48	Over 500 hp. (over 400 kw.).....	...do.....	<sup>3</sup> 5.2	<sup>3</sup> 25.1	.5	27.8
	Alternating current generators, excluding all arc welding generators, generators used as an integral part of land transportation equipment, steam, gas, and hydraulic turbine driven generators, and aircraft and space generators:					
36212 51	450 r.p.m. and slower speeds (all kw. ratings).....	...do.....	(Z)	1.2	.1	2.9
	Over 450 r.p.m.:					
36212 53	3/4 to 5 kw.....	...do.....	7.2	1.5	15.0	2.4
36212 54	5.1 to 15 kw.....	...do.....	3.8	2.2	12.7	5.4
36212 55	15.1 to 50 kw.....	...do.....	3.6	3.3	6.5	7.9
36212 56	50.1 to 150 kw.....	...do.....	2.3	4.0	5.5	9.8
36212 57	150.1 to 400 kw.....	...do.....	1.4	4.5	1.0	4.3
36212 59	Over 400 kw.....	...do.....	1.0	15.6	.8	15.2
	Land Transportation Motors, Generators, Control Equipment and Parts:					
36213 00	As reported in the census of manufactures.....		(X)	106.3	(X)	133.4
	As reported in Current Industrial Reports series MA-36H.....		(X)	112.8	(X)	127.9
36213 11	Railway motors and generators, including those used for control purposes (for trolley cars, trolley coaches, rapid transit cars, trolley locomotives, third-rail locomotives, multiple unit cars for railway service, and mining locomotives), and parts and supplies.....		(X)	18.7	(X)	22.7
36213 31	Motors and generators, including those used for control purposes, for gasoline-electric and diesel-electric buses, tracks, locomotives, railcars, and parts and supplies.....				(X)	46.3
36213 51	All other land transportation motors, including those used for control purposes, for storage-battery powered transportation equipment (for industrial trucks, mining locomotives, and other transportation equipment) and parts and supplies.....		(X)	51.6		
36213 98	Other electrical apparatus for land transportation equipment..		(X)	42.5	(X)	43.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3621- --	MOTORS AND GENERATORS--Continued					
36214 00	Prime Mover Generator Sets, Except Steam or Hydraulic Turbine: As reported in the census of manufactures.....		(X)	247.3	(X)	232.7
	As reported in Current Industrial Reports series MA-36H.....		(X)	249.6	(X)	242.2
	Generator set units except steam, gas, and water turbine sets: Gas and/or gasoline engine driven generator sets:					
36214 12	D.c. output (all ratings).....	1,000.....	8.4	4.6	13.8	8.3
	A.c. output:					
36214 13	Under 3/4 kw.....	...do.....	156.0	53.8	9.4	.9
36214 14	3/4 kw. to 5 kw.....	...do.....			87.4	32.7
36214 15	5.1 kw. to 15 kw.....	...do.....			23.9	23.3
36214 17	15.1 kw. to 35 kw.....	...do.....			1.0	2.2
36214 18	35.1 kw. to 100 kw.....	...do.....			1.1	4.4
36214 19	100.1 kw. and over.....	...do.....	.6	7.2	.3	4.6
	Diesel-engine driven generator sets:					
36214 31	D.c. output (all ratings).....	1,000.....	(4)	(4)	(4)	(4)
	A.c. output:					
36214 41	14 kw. and under.....	...do.....	4.6	7.9	4.4	8.9
36214 42	14.1 kw. to 50 kw.....	...do.....	2.4	12.4	3.8	20.3
36214 43	50.1 kw. to 100 kw.....	...do.....	2.0	10.7	2.4	18.7
36214 44	100.1 kw. to 250 kw.....	...do.....	2.8	22.6	2.9	28.3
36214 45	250.1 kw. to 500 kw.....	...do.....	1.1	22.4	.3	9.7
36214 46	500.1 kw. to 1,000 kw.....	...do.....	.4	18.0	.2	11.5
36214 47	1,000.1 kw. and over.....	...do.....	.2	38.3	.3	50.1
36214 52-53	Dual fuel (oil and gas) engine driven generator sets, all ratings a.c. or d.c. output.....	...do.....	.1	19.9	(2)	15.3
36214 75	Other generator set units, including wind-driven (except steam, gas turbine and water turbine sets, and motor-generator sets).	...do.....	(4)	(4)	(4)	(4)
	Motor-generator sets and other rotating equipment, including hermetics (fractional):					
36217 00	As reported in the census of manufactures.....		(X)	228.8	(X)	345.6
	Motor-generator sets and other rotating equipment, including hermetics (integral):					
36218 00	As reported in the census of manufactures.....		(X)	122.9		
36217 --	Motor-Generator Sets and Other Rotating Equipment:					
36218	As reported in Current Industrial Reports Series MA-36H.....		(X)	327.2	(X)	336.5
36218 11	Synchronous converters and double current generators.....	1,000.....	3.3	2.2	14.9	6.9
	Other motor-generator sets:					
36217 21	Fractional horsepower, a.c. and d.c. output (less than 3/4 kw.).....	...do.....	8.5	1.9	20.9	3.6
	Integral horsepower:					
	A.c. output, based on the rating of the largest a.c. generator:					
36218 32	3.4 to 150 kw.....	...do.....	7.1	14.7	8.6	19.1
36218 33	Over 150 kw.....	...do.....	.1	4.8	.1	2.2
	D.c. output, based on the rating of the largest d.c. generator:					
36218 34	3/4 to 170 kw.....	...do.....	5.0	22.3	7.7	21.9
36218 36	Over 170 kw.....	...do.....			.2	13.1
	Other rotating equipment:					
36217 53	Synchros, servos rate generators, resolvers, and combinations (including subfractional-under 1/100 hp. motors).....		(X)	41.6	(X)	98.8
36217 57	Synchro-type components.....					
36217 97	All hermetic motors.....	1,000.....	19.2	227.9	15.8	156.6
36218 98	All other rotating equipment.....		(X)	11.8	(X)	14.0
36219 11	Parts and supplies for motors, generators, and motor-generator sets, except for land transportation equipment (excluding motors for built-in jobs).....		(X)	188.6	(X)	158.8
36210 00	Motors, generators, and generator sets, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	30.5	(X)	33.8
36210 02	Motors, generators, and generator sets, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	5.9	(X)	2.8

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)				
		1972	1967			
3622- --	INDUSTRIAL CONTROLS:					
36220 00	As reported in census of manufactures.....	1,245.6	1,071.4			
	As reported on Census Annual Form MA-36A.....	1,160.4	983.5			
36220 12	General Industry Devices: A.c. full-voltage starters, 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor starters.....	127.4	107.3			
36220 13	A.c. contactors, 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor field control.....	31.8	21.8			
36220 14	A.c. reduced voltage controls, 600 volts or less.....	44.3	43.9			
36220 16	Motor control centers, 600 volts or less.....	82.3	72.8			
36220 18	Starters and contactors for squirrel cage and wound rotor and synchronous motors, over 600 volts, air break and oil immersed.....	25.0	28.2			
36220 43	Pilot circuit devices, such as limit switches and interval timers, excluding relays.....	122.0	90.1			
36220 44	Pushbuttons and pushbutton stations, excluding operators' desks and stations.....	48.4	60.4			
36220 81	Rheostats and resistors (except electronic applications), sold separately, n.e.c.....	513.0	11.4			
36220 45	Specific Application Controllers, Including All systems: Marine and Navy auxiliary controls and accessories.....	26.4	26.7			
36220 47	Controls, constant and adjustable voltage, including all operators' desks and stations: Metal mill.....	61.8	50.3			
36220 48	Crane and hoist.....		18.6			
36220 51	Machine tool applications: Controls for numerically-controlled machine tools: Positioning type.....	38.8	240.5			
36220 55	Continuous path type.....			9.3		
36220 59	Dial or plugboard type.....					
36220 65	Machine tool controls other than numerically-controlled machines.....			11.7		
36220 74	Other specific special purpose a.c. and d.c. controllers, such as nonmetal mill and air-conditioning, specially engineered control assemblies, and all other controllers, n.e.c., whether magnetic or static.....	274.9				
36220 96	Controls for packaged adjustable speed drives, including electronic and nonelectronic, and operators' desks and stations.....	78.7	61.0			
36220 98	All other general industry devices, including brakes and low-voltage synchronous motor starters.....	112.7	84.9			
36220 99	Renewal parts for industrial control equipment.....	69.5	65.6			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3623- --	WELDING APPARATUS, ELECTRIC, TOTAL.....		(X)	570.0	(X)	432.9
36231 --	Arc Welding Machines, Components, and Accessories, Except Electrodes.....		(X)	218.5	(X)	140.7
	Arc welding machines:					
36231 11	Alternating current transformer arc welders:					
	180 amps. and below.....	1,000 units...	33.7	1.9	58.3	4.2
36231 15	Over 180 amps.....	do.....	237.5	31.9	96.0	14.0
36231 31	Direct current arc welders:					
	Generators only.....	do.....	59.1	36.4	40.5	27.6
36231 32	Rectifier types, including a.c.-d.c.....	do.....				
	Complete units only:					
36231 33	Engine driven.....	do.....	48.9	48.9	43.4	34.6
36231 35	Motor driven.....	do.....				
36231 51	Accessories for arc welding apparatus: Automatic and semiautomatic arc welding apparatus, including controls, wire drive mechanisms, torches, guns, and related accessories (excluding special purpose automatic welding machines).....		(X)	32.6	(X)	45.4
36231 53	Special purpose automatic welding machines.....		(X)	16.2		
36231 55	Circuit welding accessories, including electrode holders, guns, torches, ground clamps, cable connectors, etc.....		(X)	7.9		
36231 57	Positioning and manipulating equipment, including turn rolls, head and tailstock, weld head manipulators, seamers, moving carriages, etc.....		(X)	13.4		
36231 59	All other accessories for arc welding machinery, excluding welding heads.....		(X)	10.7		
36231 00	Arc welding machines, components, and accessories, except electrodes, n.s.k.....		(X)	18.6	(X)	14.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3623- --	WELDING APPARATUS, ELECTRIC--Continued					
36232 --	Arc Welding Electrodes, Metal.....		(X)	215.5	(X)	166.3
	Stick electrodes, straightened and cut lengths (including solid, cored, covered, and bare electrodes):					
36232 11	Mild steel.....	Million lb....	577.0	86.5	511.8	75.0
36232 23	Low alloy steel, except hard surfacing.....	..do.....	30.9	11.9	51.6	10.2
36232 25	Stainless steel (chromium 4% or more).....	..do.....	15.5	28.7	20.3	22.1
36232 31	Nonferrous, except hard surfacing.....	..do.....	4.1	9.8	3.8	12.7
36232 41	Hard surfacing, all types.....	..do.....	16.7	10.4	22.0	11.8
	Coiled and spooled continuous wire electrodes for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding, bare wire):					
36232 51	Solid wire.....	..do.....	119.0	33.3	138.7	34.2
36232 55	Cored wire.....	..do.....	102.0	33.6		
36232 00	Arc welding electrodes, metal, n.s.k.....		(X)	1.3	(X)	.3
36233 --	Resistance Welders, Components, Accessories, and Electrodes.....		(X)	115.1	(X)	88.0
36233 13	Spot and projection welders, single electrode.....	1,000 units...	3.8	14.2	4.9	13.7
36233 23	Spot and projection welders, multi-electrode.....	..do.....	.9	18.2	1.0	15.3
36233 31	Seam welders.....	..do.....	.1	7.8	.3	3.2
36233 41	Flast, upset and butt welders.....	..do.....	.8	2.2	1.6	5.0
36233 51	Other resistance welders.....	..do.....	.5	22.1	(X)	22.3
36233 61	Resistance welder transformers.....	..do.....	(NA)	3.3	6.8	3.1
36233 71	Resistance welder electrodes.....	Million lb....	(NA)	4.9	2.5	4.4
36233 81	Resistance welder accessories, including electrode holders, etc.		(X)	31.3	(X)	10.7
36233 00	Resistance welders, components, accessories, and electrodes, n.s.k.....		(X)	11.1	(X)	10.3
36230 00	Welding apparatus, electric, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	16.5	(X)	35.8
36230 02	Welding apparatus, electric, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.4	(X)	2.1
1972 product code	Product		Total receipts including interplant transfers (million dollars)			
			1972		1967	
3624- --	CARBON AND GRAPHITE PRODUCTS, TOTAL.....			335.9		295.8
36241 --	Electrodes.....			136.9		147.6
	Electrodes for electric furnaces and electrolytic cell use, including paste for self-bake electrodes:					
36241 52	Carbon.....			33.0	147.6	
36241 56	Graphite.....			103.9		
36249 --	All Other Carbon and Graphite Products.....			193.8		140.7
	Brushes, contacts, and brushplates:					
36249 11	Automotive (starter, generator, and alternator) brushes, including replacement brushes (automotive and light truck type, 6 to 12 volts, inclusive and those that are coded (including automobile accessory brushes).....			27.3		12.2
36249 13	Other fractional horsepower brushes and contacts, including replacement brushes (1/4 sq. inch or less in cross section or 1-1/2 inches long or less, including miniature brushes and accessory brushes.....			11.6		6.9
36249 15	Other industrial brushes and contacts (brushes over 1/4 sq. inch in cross section and over 1-1/2 inches long).....			17.2		14.2
36249 17	Brushplates.....			1.0		4.2
	All other carbon and graphite products, except electrodes:					
36249 81	For electrical uses, including welding products (rods, plates, paste brazing and soldering tips); illuminating carbons; pile and rheostat resistance discs, plugs, plates and rods; power tube and rectifier parts, plates or rods; spectroscopic products; battery; electronic graphite; telephone components; resistance elements, etc., excluding silver or other metal contacts.....			67.3	32.0	
36249 83	For mechanical uses, including one-piece seals, bushings and bearings, packing rings for steam seal, rotor vanes, and other uses where there is relative motion between two parts (excluding metallic oilless bearings).....					
36249 86	For aerospace uses, including unmachined stock and machined items not included elsewhere.....					
36249 87	For nuclear uses, including unmachined stock and machined parts for use in nuclear reactors and/or in processing nuclear materials not included elsewhere.....					
36249 89	For all other uses, including chemical metallurgical, etc., except for electrodes.....			43.3		52.7
36240 00	Carbon and graphite products, n.s.k., for establishments with 10 employees or more. (See note.).....			4.5		7.0
36240 02	Carbon and graphite products, n.s.k., for establishments with less than 10 employees. (See note.).....			.7		.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3629- --	ELECTRICAL INDUSTRIAL APPARATUS, N.E.C., TOTAL.....		(X)	442.9	(X)	398.5
36291 --	Capacitors for Industrial Use (Except for Electronic Applications)		(X)	112.4	(X)	112.5
36291 11	Shunt and series power capacitors, units and equipment, 1/2 KVA and above, and accessories for power factor correction and other low-frequency a.c. applications.....	1,000 units...	192.7	41.1	(NA)	47.8
	A.c. capacitors (except electrolytic):					
36291 31	General purpose, for motors, controls, etc.....	Million units.	22.1	39.0	15.2	36.3
36291 35	Capacitors for fluorescent lamp ballasts.....	do.....	(NA)	31.8	21.7	13.5
36291 98	Other capacitors, except for electronic applications.....				(X)	13.0
36291 00	Capacitors for industrial use, except for electronic applications, n.s.k.....		(X)	.5	(X)	1.9
36292 --	Rectifying Apparatus.....		(X)	152.6	(X)	131.6
	Rectifying (power conversion) apparatus (except for electronic application), including all apparatus using semiconductors and/or electron tubes as power conversion means:					
	Semiconductor power conversion apparatus:					
	Semiconductor battery chargers:					
36292 21	Automotive.....	1,000 units...	690.6	11.8	<sup>r</sup> 620.1	13.9
36292 25	Industrial and railroad.....	do.....	85.2	29.9	109.3	11.7
36292 31	Semiconductor computer supplies.....		(X)	13.1	(X)	1.0
	Semiconductor high-voltage power supplies in excess of 2 KV (excluding separate associated apparatus such as controls, capacitors, switchgear, etc.):					
36292 41	100 kw. and below .....		(X)	3.0	(X)	14.0
36292 45	Above 100 kw.....		(X)	3.2		
36292 49	All other a.c. to d.c. semiconductor power conversion apparatus.....		(X)	49.2	(X)	28.5
36292 51	Power mercury arc rectifiers.....		(X)	30.3	(X)	17.3
36292 98	Other rectifying (power conversion) apparatus.....		(X)	12.1	(X)	31.2
36292 00	Rectifying apparatus, n.s.k.....		(X)		(X)	14.0
36293 --	Other Electrical Equipment for Industrial Use.....		(X)	145.9	(X)	135.1
	Coil windings, electrical:					
36293 13	Aluminum and aluminum-base alloy.....	Million units.	3.9	3.0	<sup>r</sup> 9.3	<sup>r</sup> 7.7
36293 15	Copper and copper-base alloy.....	do.....	45.3	45.6	<sup>r</sup> 45.3	<sup>r</sup> 32.1
	Thermic generators:					
36293 23	Thermal electric.....	do.....	-	-	.2	.2
36293 25	Electro-chemical generators (fuel cells).....	do.....	(NA)	( <sup>r</sup> )	(NA)	2.5
36293 31	Solenoids (except solenoid-activated regulating valves).....	do.....	(NA)	12.9	1,036.2	16.6
36293 98	Other miscellaneous electrical equipment for industrial use, n.e.c.....		(X)	<sup>r</sup> 72.9	(X)	65.0
36293 00	Other electrical equipment for industrial use, n.s.k.....		(X)	11.5	(X)	11.0
36290 00	Electrical industrial apparatus, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	25.5	(X)	16.6
36290 02	Electrical industrial apparatus, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	6.5	(X)	2.8

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown (less than 0.1 when rounded). <sup>r</sup>Revised.

<sup>1</sup>Product codes 36125 42 and 36125 53 are combined with product code 36125 98 to avoid disclosing figures for individual companies.

<sup>2</sup>Product code 36125 60 is combined with product code 36125 00 to avoid disclosing figures for individual companies.

<sup>3</sup>Figures for product codes 36212 01 and 36212 48 are combined.

<sup>4</sup>Figures for product codes 36214 31 and 36214 75 are combined.

<sup>5</sup>Quantity reported for 1972 was 64.2 million. A comparable quantity figure for 1967 is not available.

<sup>6</sup>These figures are probably understated. Machine tool manufacturers reported a 1972 value of controls shipped as part of numerically controlled machine tools of \$42.3 million. This figure is published in Current Industrial Report series MQ-35W, "Metalworking Machinery."

<sup>7</sup>Data for product code 36293 25 are included with code 36293 98 to avoid disclosing figures for individual companies.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
POWER AND DISTRIBUTION TRANSFORMERS, EXCEPT PARTS (36122)			SPECIALTY TRANSFORMERS, EXCEPT FLUORESCENT LAMP BALLASTS (36125)--Continued		
United States.....	913.9	790.3	South Region.....	EE	(NA)
Northeast Region.....	287.1	333.4	South Atlantic Division.....	CC	(NA)
New England Division.....	GG	( <sup>1</sup> )	North Carolina.....	BB	(NA)
Massachusetts.....	82.9	( <sup>1</sup> )	Florida.....	BB	(NA)
Middle Atlantic Division.....	GG	( <sup>1</sup> )	East South Central Division.....	CC	(NA)
New York.....	4.8	( <sup>1</sup> )	Kentucky.....	BB	(NA)
Pennsylvania.....	GG	231.9	Alabama.....	CC	(NA)
North Central Region.....	231.7	220.2	West Region.....	CC	(NA)
East North Central Division.....	168.8	( <sup>1</sup> )	Pacific Division.....	7.8	(NA)
Ohio.....	FF	( <sup>1</sup> )	California.....	CC	(NA)
Indiana.....	FF	( <sup>1</sup> )			
Illinois.....	11.6	10.2	POWER REGULATORS, BOOSTERS, ETC., AND PARTS (36127)		
Michigan.....	BB	( <sup>1</sup> )	United States.....	111.4	120.6
Wisconsin.....	79.6	54.8	Northeast Region.....	62.2	81.2
West North Central Division.....	62.9	( <sup>1</sup> )	New England Division.....	FF	FF
Missouri.....	62.9	( <sup>1</sup> )	Massachusetts.....	FF	FF
South Region.....	334.0	187.2	Connecticut.....	AA	( <sup>1</sup> )
South Atlantic Division.....	238.8	149.3	Middle Atlantic Division.....	FF	FF
Virginia.....	FF	( <sup>1</sup> )	New York.....	2.7	BB
West Virginia.....	CC	( <sup>1</sup> )	Pennsylvania.....	EE	FF
North Carolina.....	GG	( <sup>1</sup> )			
Georgia.....	GG	( <sup>1</sup> )	North Central Region.....	FF	21.8
Florida.....	FF	( <sup>1</sup> )	East North Central Division.....	FF	FF
East South Central Division.....	GG	17.0	Ohio.....	CC	5.8
Kentucky.....	FF	( <sup>1</sup> )	Indiana.....	5.4	7.7
Alabama.....	EE	( <sup>1</sup> )	Illinois.....	AA	( <sup>1</sup> )
Mississippi.....	20.2	( <sup>1</sup> )	Wisconsin.....	CC	6.0
West South Central Division.....	FF	20.9	South Region.....	23.8	EE
Arkansas.....	EE	( <sup>1</sup> )	South Atlantic Division.....	EE	CC
Louisiana.....	FF	( <sup>1</sup> )	North Carolina.....	BB	BB
Texas.....	1.7	( <sup>1</sup> )	Georgia.....	CC	CC
West Region.....	61.1	49.6	East South Central Division.....	EE	CC
Pacific Division.....	61.1	49.6	Alabama.....	EE	CC
Oregon.....	EE	( <sup>1</sup> )	West Region.....	BB	AA
California.....	FF	( <sup>1</sup> )	Pacific Division.....	BB	AA
			California.....	BB	AA
FLUORESCENT LAMP BALLASTS (36124) <sup>2</sup>					
United States.....	160.6	(NA)	SWITCHGEAR, EXCEPT DUCTS AND RELAYS (36131)		
Northeast Region.....	EE	(NA)	United States.....	597.1	455.7
Middle Atlantic Division.....	EE	(NA)	Northeast Region.....	309.0	226.9
New Jersey.....	EE	(NA)	New England Division.....	50.7	( <sup>1</sup> )
North Central Region.....	69.1	(NA)	Massachusetts.....	EE	( <sup>1</sup> )
East North Central Division.....	69.1	(NA)	Connecticut.....	31.5	( <sup>1</sup> )
Ohio.....	AA	(NA)	Middle Atlantic Division.....	258.4	( <sup>1</sup> )
Illinois.....	GG	(NA)	New York.....	11.6	( <sup>1</sup> )
Wisconsin.....	CC	(NA)	New Jersey.....	12.9	( <sup>1</sup> )
South Region.....	GG	(NA)	Pennsylvania.....	233.9	175.7
East South Central Division.....	GG	(NA)			
Kentucky.....	EE	(NA)	North Central Region.....	192.2	141.5
Mississippi.....	GG	(NA)	East North Central Division.....	150.3	109.3
			Ohio.....	9.2	13.1
SPECIALTY TRANSFORMERS, EXCEPT FLUORESCENT LAMP BALLASTS (36125) <sup>3</sup>			Indiana.....	CC	( <sup>1</sup> )
United States.....	225.3	(NA)	Illinois.....	90.3	75.8
Northeast Region.....	74.6	(NA)	Michigan.....	1.9	2.9
New England Division.....	28.5	(NA)	Wisconsin.....	FF	( <sup>1</sup> )
New Hampshire.....	EE	(NA)	West North Central Division.....	41.9	32.3
Massachusetts.....	EE	(NA)	Minnesota.....	BB	( <sup>1</sup> )
Middle Atlantic Division.....	46.1	(NA)	Iowa.....	FF	( <sup>1</sup> )
New York.....	12.1	(NA)	Missouri.....	EE	10.8
New Jersey.....	BB	(NA)			
Pennsylvania.....	FF	(NA)	South Region.....	53.3	45.6
North Central Region.....	129.0	(NA)	South Atlantic Division.....	26.9	29.1
East North Central Division.....	GG	(NA)	Maryland.....	BB	( <sup>1</sup> )
Ohio.....	FF	(NA)	Georgia.....	24.4	( <sup>1</sup> )
Indiana.....	FF	(NA)	East South Central Division.....	CC	3.6
Illinois.....	GG	(NA)	Kentucky.....	BB	( <sup>1</sup> )
Michigan.....	4.2	(NA)	Alabama.....	BB	( <sup>1</sup> )
Wisconsin.....	24.2	(NA)	West South Central Division.....	FF	11.9
			Arkansas.....	CC	( <sup>1</sup> )
			Louisiana.....	AA	( <sup>1</sup> )
			Oklahoma.....	AA	( <sup>1</sup> )
			Texas.....	9.6	8.0

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
SWITCHGEAR, EXCEPT DUCTS AND RELAYS (36131)--Con.			LOW VOLTAGE PANELBOARDS, ETC., 750 VOLTS AND LESS (35133)--Continued		
West Region.....	42.7	41.7	West Region.....	56.3	42.3
Mountain Division.....	BB	( <sup>1</sup> )	Mountain Division.....	5.2	1.5
Arizona.....	BB	( <sup>1</sup> )	Colorado.....	BB	1.5
Pacific Division.....	FF	( <sup>1</sup> )	Pacific Division.....	51.5	40.8
Washington.....	BB	( <sup>1</sup> )	Washington.....	CC	5.1
Oregon.....	CC	( <sup>1</sup> )	Oregon.....	BB	1.4
California.....	30.9	32.8	California.....	42.1	34.4
POWER CIRCUIT BREAKERS, ALL VOLTAGES (36132)			FUSES AND FUSE EQUIPMENT, UNDER 2300 VOLTS (36134)		
United States.....	182.7	209.8	United States.....	99.7	69.2
Northeast Region.....	139.4	157.0	Northeast Region.....	FF	18.4
New England Division.....	EE	( <sup>1</sup> )	New England Division.....	EE	8.9
Massachusetts.....	EE	( <sup>1</sup> )	Massachusetts.....	CC	( <sup>1</sup> )
Middle Atlantic Division.....	GG	( <sup>1</sup> )	Rhode Island.....	CC	( <sup>1</sup> )
New York.....	BB	1.0	Middle Atlantic Division.....	10.3	9.5
New Jersey.....	BB	( <sup>1</sup> )	New York.....	6.7	4.6
Pennsylvania.....	GG	( <sup>1</sup> )	New Jersey.....	BB	( <sup>1</sup> )
North Central Region.....	EE	33.7	North Central Region.....	73.2	( <sup>1</sup> )
East North Central Division.....	CC	( <sup>1</sup> )	East North Central Division.....	EE	( <sup>1</sup> )
Indiana.....	CC	( <sup>1</sup> )	Illinois.....	EE	( <sup>1</sup> )
Illinois.....	2.7	( <sup>1</sup> )	West North Central Division.....	GG	( <sup>1</sup> )
West North Central Division.....	BB	( <sup>1</sup> )	Missouri.....	GG	( <sup>1</sup> )
Missouri.....	BB	( <sup>1</sup> )			
South Region.....	11.9	( <sup>1</sup> )	South Region.....	AA	( <sup>1</sup> )
South Atlantic Division.....	CC	( <sup>1</sup> )	South Atlantic Division.....	AA	( <sup>1</sup> )
Maryland.....	BB	( <sup>1</sup> )	Georgia.....	AA	( <sup>1</sup> )
Virginia.....	AA	( <sup>1</sup> )			
Georgia.....	BB	( <sup>1</sup> )	MOLDED CASE CIRCUIT BREAKERS, 750 VOLTS AND UNDER (36135)		
East South Central Division.....	BB	( <sup>1</sup> )	United States.....	283.0	(NA)
Kentucky.....	BB	( <sup>1</sup> )	Northeast Region.....	134.5	(NA)
West Region.....	FF	( <sup>1</sup> )	New England Division.....	35.1	(NA)
Pacific Division.....	EE	( <sup>1</sup> )	Maine.....	BB	(NA)
California.....	EE	( <sup>1</sup> )	Massachusetts.....	CC	(NA)
LOW VOLTAGE PANELBOARDS, ETC., 750 VOLTS AND LESS (36133)			Connecticut.....	FF	(NA)
United States.....	539.0	378.0	Middle Atlantic Division.....	99.4	(NA)
Northeast Region.....	181.3	150.6	New York.....	AA	(NA)
New England Division.....	73.7	50.7	New Jersey.....	EE	(NA)
Maine.....	CC	( <sup>1</sup> )	Pennsylvania.....	GG	(NA)
New Hampshire.....	CC	( <sup>1</sup> )	North Central Region.....	100.1	(NA)
Massachusetts.....	4.9	( <sup>1</sup> )	East North Central Division.....	FF	(NA)
Connecticut.....	FF	35.2	Ohio.....	BB	(NA)
Middle Atlantic Division.....	107.6	99.8	Illinois.....	EE	(NA)
New York.....	27.7	27.9	Michigan.....	BB	(NA)
New Jersey.....	37.4	41.7	West North Central Division.....	GG	(NA)
Pennsylvania.....	42.5	30.3	Minnesota.....	AA	(NA)
North Central Region.....	129.5	98.7	Iowa.....	FF	(NA)
East North Central Division.....	110.7	80.0	Nebraska.....	FF	(NA)
Ohio.....	31.6	22.3	South Region.....	FF	(NA)
Indiana.....	FF	8.3	South Atlantic Division.....	FF	(NA)
Illinois.....	34.5	30.9	Maryland.....	AA	(NA)
Michigan.....	17.7	17.6	Virginia.....	EE	(NA)
Wisconsin.....	BB	( <sup>1</sup> )	North Carolina.....	FF	(NA)
West North Central Division.....	18.8	18.1	Georgia.....	CC	(NA)
Minnesota.....	EE	( <sup>1</sup> )	West Region.....	BB	(NA)
Iowa.....	BB	( <sup>1</sup> )	Pacific Division.....	BB	(NA)
Missouri.....	4.4	14.0	California.....	BB	(NA)
South Region.....	172.0	86.4	DUCT, INCLUDING PLUG-IN UNITS AND ACCESSORIES, 750 VOLTS AND UNDER (36136)		
South Atlantic Division.....	53.9	25.6	United States.....	65.7	(NA)
Maryland.....	CC	( <sup>1</sup> )	Northeast Region.....	18.2	(NA)
Virginia.....	BB	( <sup>1</sup> )	New England Division.....	AA	(NA)
North Carolina.....	1.3	( <sup>1</sup> )	Connecticut.....	AA	(NA)
Georgia.....	43.7	22.8	Middle Atlantic Division.....	EE	(NA)
Florida.....	1.7	( <sup>1</sup> )	New York.....	1.8	(NA)
East South Central Division.....	76.0	36.6	New Jersey.....	BB	(NA)
Kentucky.....	GG	( <sup>1</sup> )	Pennsylvania.....	EE	(NA)
Mississippi.....	EE	( <sup>1</sup> )			
West South Central Division.....	42.0	24.2			
Oklahoma.....	CC	( <sup>1</sup> )			
Texas.....	36.4	( <sup>1</sup> )			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DUCTS, INCLUDING PLUG-IN UNITS AND ACCESSORIES, 750 VOLTS AND UNDER (36136)--Continued			FRACTIONAL HORSEPOWER MOTORS (36211)--Continued		
North Central Region.....	41.7	(NA)	North Central Region--Continued		
East North Central Division.....	FF	(NA)	West North Central Division.....	64.4	51.7
Ohio.....	16.7	(NA)	Minnesota.....	EE	( <sup>1</sup> )
Indiana.....	EE	(NA)	Iowa.....	AA	( <sup>1</sup> )
Illinois.....	BB	(NA)	Missouri.....	52.8	45.2
West North Central Division.....	AA	(NA)	South Region.....	297.2	181.8
Missouri.....	AA	(NA)	South Atlantic Division.....	56.0	31.0
South Region.....	22.1	(NA)	Maryland.....	EE	( <sup>1</sup> )
South Atlantic Division.....	CC	(NA)	Virginia.....	EE	( <sup>1</sup> )
South Carolina.....	CC	(NA)	North Carolina.....	16.4	( <sup>1</sup> )
East South Central Division.....	EE	(NA)	South Carolina.....	EE	( <sup>1</sup> )
Kentucky.....	BB	(NA)	Georgia.....	BB	( <sup>1</sup> )
Tennessee.....	EE	(NA)	East South Central Division.....	95.2	80.1
West Region.....	1.5	(NA)	Kentucky.....	BB	( <sup>1</sup> )
Pacific Division.....	AA	(NA)	Tennessee.....	GG	60.1
California.....	AA	(NA)	Mississippi.....	37.0	( <sup>1</sup> )
			West South Central Division.....	145.9	70.6
RELAYS, CONTROL CIRCUIT (36137)			Arkansas.....	GG	( <sup>1</sup> )
United States.....	223.4	(NA)	Texas.....	EE	( <sup>1</sup> )
Northeast Region.....	65.2	(NA)	West Region.....	14.0	22.4
New England Division.....	25.7	(NA)	Pacific Division.....	EE	22.4
Massachusetts.....	EE	(NA)	California.....	EE	22.4
Connecticut.....	EE	(NA)			
Middle Atlantic Division.....	39.4	(NA)	INTEGRAL HORSEPOWER MOTORS AND GENERATORS, EXCEPT LAND TRANSPORTATION EQUIPMENT (36212)		
New York.....	1.5	(NA)	United States.....	567.7	569.5
New Jersey.....	33.4	(NA)	Northeast Region.....	GG	255.6
Pennsylvania.....	4.5	(NA)	New England Division.....	9.3	( <sup>1</sup> )
North Central Region.....	83.8	(NA)	Connecticut.....	CC	( <sup>1</sup> )
East North Central Division.....	GG	(NA)	Middle Atlantic Division.....	GG	( <sup>1</sup> )
Ohio.....	CC	(NA)	New York.....	GG	( <sup>1</sup> )
Indiana.....	FF	(NA)	New Jersey.....	CC	( <sup>1</sup> )
Illinois.....	24.2	(NA)	Pennsylvania.....	GG	( <sup>1</sup> )
Michigan.....	4.2	(NA)	North Central Region.....	247.7	264.9
Wisconsin.....	22.0	(NA)	East North Central Division.....	216.8	233.8
West North Central Division.....	BB	(NA)	Ohio.....	106.7	126.9
Minnesota.....	BB	(NA)	Indiana.....	FF	( <sup>1</sup> )
South Region.....	56.8	(NA)	Michigan.....	BB	4.6
South Atlantic Division.....	FF	(NA)	Wisconsin.....	60.1	73.0
Maryland.....	CC	(NA)	West North Central Division.....	30.9	31.0
North Carolina.....	EE	(NA)	Minnesota.....	19.8	( <sup>1</sup> )
South Carolina.....	BB	(NA)	Iowa.....	BB	( <sup>1</sup> )
Georgia.....	EE	(NA)	Missouri.....	CC	( <sup>1</sup> )
East South Central Division.....	FF	(NA)	South Region.....	80.9	22.1
Kentucky.....	FF	(NA)	South Atlantic Division.....	EE	( <sup>1</sup> )
West South Central Division.....	BB	(NA)	Georgia.....	EE	( <sup>1</sup> )
Texas.....	BB	(NA)	East South Central Division.....	FF	( <sup>1</sup> )
West Region.....	17.6	(NA)	Tennessee.....	FF	( <sup>1</sup> )
Pacific Division.....	17.4	(NA)	Mississippi.....	EE	( <sup>1</sup> )
California.....	EE	(NA)	West South Central Division.....	24.9	( <sup>1</sup> )
			Arkansas.....	24.9	( <sup>1</sup> )
FRACTIONAL HORSEPOWER MOTORS (36211)			West Region.....	FF	26.9
United States.....	1,137.7	842.5	Mountain Division.....	CC	( <sup>1</sup> )
Northeast Region.....	219.9	172.3	Arizona.....	CC	( <sup>1</sup> )
New England Division.....	24.2	22.9	Pacific Division.....	FF	( <sup>1</sup> )
New Hampshire.....	BB	( <sup>1</sup> )	California.....	FF	( <sup>1</sup> )
Massachusetts.....	CC	( <sup>1</sup> )			
Connecticut.....	11.3	12.7	PRIME MOVER GENERATOR SETS, EXCEPT STEAM OR HYDRAULIC TURBINE (SIC 36214)		
Middle Atlantic Division.....	195.7	149.4	United States.....	247.3	232.7
New York.....	GG	112.9	Northeast Region.....	29.9	50.7
New Jersey.....	23.8	24.6	New England Division.....	BB	( <sup>1</sup> )
Pennsylvania.....	EE	11.8	Connecticut.....	BB	( <sup>1</sup> )
North Central Region.....	605.2	466.1	Middle Atlantic Division.....	FF	( <sup>1</sup> )
East North Central Division.....	540.8	414.4	New York.....	BB	( <sup>1</sup> )
Ohio.....	165.1	147.8	New Jersey.....	EE	( <sup>1</sup> )
Indiana.....	170.1	133.9	Pennsylvania.....	BB	( <sup>1</sup> )
Illinois.....	84.5	57.4	North Central Region.....	180.2	143.8
Michigan.....	84.1	43.0	East North Central Division.....	GG	102.5
Wisconsin.....	37.0	32.4	Ohio.....	BB	( <sup>1</sup> )

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PRIME MOVER GENERATOR SETS, EXCEPT STEAM OR HYDRAULIC TURBINE (SIC 36214)--Continued			MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT, INCLUDING HERMETICS (INTEGRAL) (36218)--Con.		
North Central Region--Continued			North Central Region--Continued		
East North Central Division--Continued			West North Central Division.....	EE	(NA)
Illinois.....	GG	63.2	Minnesota.....	CC	(NA)
Wisconsin.....	39.5	( <sup>1</sup> )	Missouri.....	CC	(NA)
West North Central Division.....	GG	41.3			
Minnesota.....	GG	( <sup>1</sup> )	South Region.....	FF	(NA)
Iowa.....	BB	( <sup>1</sup> )	East South Central Division.....	FF	(NA)
Nebraska.....	AA	( <sup>1</sup> )	Kentucky.....	FF	(NA)
			West South Central Division.....	CC	(NA)
South Region.....	22.1	( <sup>1</sup> )	Texas.....	CC	(NA)
South Atlantic Division.....	EE	( <sup>1</sup> )			
North Carolina.....	CC	( <sup>1</sup> )	West Region.....	BB	(NA)
South Carolina.....	BB	( <sup>1</sup> )	Mountain Division.....	AA	(NA)
East South Central Division.....	BB	( <sup>1</sup> )	Colorado.....	AA	(NA)
Tennessee.....	BB	( <sup>1</sup> )	Pacific Division.....	BB	(NA)
West South Central Division.....	CC	( <sup>1</sup> )	California.....	BB	(NA)
Louisiana.....	BB	( <sup>1</sup> )			
Oklahoma.....	BB	( <sup>1</sup> )	PARTS AND SUPPLIES FOR MOTORS, GENERATORS, AND MOTOR-GENERATOR SETS, EXCEPT LAND TRANSPORTATION EQUIPMENT (36219) <sup>4</sup>		
West Region.....	15.1	( <sup>1</sup> )	United States.....	188.6	(NA)
Pacific Division.....	15.1	( <sup>1</sup> )			
California.....	15.1	( <sup>1</sup> )	Northeast Region.....	66.0	(NA)
			New England Division.....	BB	(NA)
MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT, INCLUDING HERMETICS (FRACTIONAL) (36217) <sup>3</sup>			Massachusetts.....	AA	(NA)
United States.....	228.8	(NA)	Connecticut.....	3.2	(NA)
Northeast Region.....	21.5	(NA)	Middle Atlantic Division.....	GG	(NA)
New England Division.....	7.4	(NA)	New York.....	26.2	(NA)
New Hampshire.....	BB	(NA)	New Jersey.....	EE	(NA)
Massachusetts.....	1.5	(NA)	Pennsylvania.....	19.5	(NA)
Connecticut.....	BB	(NA)			
Middle Atlantic Division.....	14.1	(NA)	North Central Region.....	73.7	(NA)
New York.....	3.3	(NA)	East North Central Division.....	GG	(NA)
New Jersey.....	4.1	(NA)	Ohio.....	35.5	(NA)
Pennsylvania.....	6.7	(NA)	Indiana.....	BB	(NA)
			Illinois.....	6.0	(NA)
North Central Region.....	133.1	(NA)	Michigan.....	CC	(NA)
East North Central Division.....	GG	(NA)	Wisconsin.....	14.4	(NA)
Ohio.....	GG	(NA)	West North Central Division.....	CC	(NA)
Indiana.....	FF	(NA)	Minnesota.....	CC	(NA)
Illinois.....	CC	(NA)			
Michigan.....	CC	(NA)	South Region.....	EE	(NA)
West North Central Division.....	BB	(NA)	South Atlantic Division.....	CC	(NA)
Missouri.....	BB	(NA)	Virginia.....	BB	(NA)
			West Virginia.....	BB	(NA)
South Region.....	65.5	(NA)	East South Central Division.....	CC	(NA)
South Atlantic Division.....	EE	(NA)	Mississippi.....	CC	(NA)
Virginia.....	CC	(NA)	West South Central Division.....	6.2	(NA)
North Carolina.....	CC	(NA)	Arkansas.....	BB	(NA)
East South Central Division.....	FF	(NA)	Texas.....	AA	(NA)
Kentucky.....	FF	(NA)			
Tennessee.....	CC	(NA)	West Region.....	FF	(NA)
Mississippi.....	EE	(NA)	Mountain Division.....	AA	(NA)
West South Central Division.....	CC	(NA)	Arizona.....	AA	(NA)
Arkansas.....	CC	(NA)	Pacific Division.....	28.5	(NA)
			California.....	FF	(NA)
West Region.....	8.8	(NA)			
Mountain Division.....	AA	(NA)	ARC WELDING MACHINES, COMPONENTS, AND ACCESSORIES, EXCEPT ELECTRODES (36231)		
Utah.....	AA	(NA)	United States.....	218.5	140.7
Pacific Division.....	CC	(NA)			
California.....	CC	(NA)	Northeast Region.....	17.0	15.3
			New England Division.....	BB	( <sup>1</sup> )
MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT, INCLUDING HERMETICS (INTEGRAL) (36218) <sup>3</sup>			Connecticut.....	BB	( <sup>1</sup> )
United States.....	122.9	(NA)	Middle Atlantic Division.....	EE	( <sup>1</sup> )
Northeast Region.....	37.6	(NA)	New York.....	7.9	( <sup>1</sup> )
Middle Atlantic Division.....	FF	(NA)	New Jersey.....	BB	3.8
New York.....	EE	(NA)	Pennsylvania.....	BB	( <sup>1</sup> )
Pennsylvania.....	FF	(NA)			
			North Central Region.....	166.5	109.4
North Central Region.....	52.8	(NA)	East North Central Division.....	148.1	85.7
East North Central Division.....	FF	(NA)	Ohio.....	77.7	( <sup>1</sup> )
Ohio.....	21.4	(NA)	Indiana.....	AA	( <sup>1</sup> )
Indiana.....	CC	(NA)	Illinois.....	CC	( <sup>1</sup> )
Wisconsin.....	CC	(NA)	Michigan.....	20.5	12.5
			Wisconsin.....	FF	( <sup>1</sup> )

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ARC WELDING MACHINES, COMPONENTS, AND ACCESSORIES, EXCEPT ELECTRODES (36231)--Continued			ELECTRODES (36241) <sup>3</sup>		
North Central Region--Continued			United States.....	136.9	(NA)
West North Central Division.....	18.4	14.1	Northeast Region.....	GG	(NA)
Minnesota.....	CC	( <sup>1</sup> )	Middle Atlantic Division.....	GG	(NA)
Missouri.....	8.3	9.5	New York.....	FF	(NA)
Kansas.....	BB	( <sup>1</sup> )	Pennsylvania.....	FF	(NA)
South Region.....	30.6	9.2	North Central Region.....	AA	(NA)
South Atlantic Division.....	FF	( <sup>1</sup> )	East North Central Division.....	AA	(NA)
Virginia.....	BB	( <sup>1</sup> )	Ohio.....	AA	(NA)
South Carolina.....	EE	( <sup>1</sup> )	South Region.....	GG	(NA)
East South Central Division.....	AA	( <sup>1</sup> )	South Atlantic Division.....	FF	(NA)
Tennessee.....	AA	( <sup>1</sup> )	West Virginia.....	EE	(NA)
West South Central Division.....	CC	( <sup>1</sup> )	North Carolina.....	EE	(NA)
Texas.....	CC	( <sup>1</sup> )	East South Central Division.....	FF	(NA)
West Region.....	4.4	6.8	Kentucky.....	CC	(NA)
Pacific Division.....	BB	( <sup>1</sup> )	Tennessee.....	FF	(NA)
California.....	BB	( <sup>1</sup> )	West Region.....	BB	(NA)
ARC WELDING ELECTRODES, METAL (36232)			Pacific Division.....	BB	(NA)
United States.....	215.5	166.3	California.....	BB	(NA)
Northeast Region.....	75.8	57.3	ALL OTHER CARBON AND GRAPHITE PRODUCTS (36249) <sup>3</sup>		
Middle Atlantic Division.....	GG	( <sup>1</sup> )	United States.....	193.8	(NA)
New York.....	EE	( <sup>1</sup> )	Northeast Region.....	GG	(NA)
Pennsylvania.....	GG	14.3	New England Division.....	AA	(NA)
North Central Region.....	96.3	80.0	Middle Atlantic Division.....	GG	(NA)
East North Central Division.....	GG	( <sup>1</sup> )	New York.....	FF	(NA)
Ohio.....	92.0	36.3	New Jersey.....	BB	(NA)
Michigan.....	AA	( <sup>1</sup> )	Pennsylvania.....	44.7	(NA)
West North Central Division.....	BB	( <sup>1</sup> )	North Central Region.....	64.5	(NA)
Minnesota.....	BB	( <sup>1</sup> )	East North Central Division.....	64.5	(NA)
South Region.....	FF	( <sup>1</sup> )	Ohio.....	FF	(NA)
South Atlantic Division.....	FF	( <sup>1</sup> )	Illinois.....	BB	(NA)
Maryland.....	EE	( <sup>1</sup> )	Michigan.....	EE	(NA)
West Virginia.....	CC	( <sup>1</sup> )	Wisconsin.....	BB	(NA)
East South Central Division.....	CC	( <sup>1</sup> )	South Region.....	FF	(NA)
Alabama.....	CC	( <sup>1</sup> )	South Atlantic Division.....	FF	(NA)
West South Central Division.....	CC	( <sup>1</sup> )	West Virginia.....	EE	(NA)
Texas.....	CC	( <sup>1</sup> )	North Carolina.....	EE	(NA)
West Region.....	EE	( <sup>1</sup> )	South Carolina.....	EE	(NA)
Pacific Division.....	EE	( <sup>1</sup> )	East South Central Division.....	CC	(NA)
California.....	EE	( <sup>1</sup> )	Tennessee.....	BB	(NA)
RESISTANCE WELDERS, COMPONENTS, ACCESSORIES, AND ELECTRODES (36233)			CAPACITORS FOR INDUSTRIAL USE, EXCEPT FOR ELECTRONIC APPLICATIONS (36291)		
United States.....	115.1	88.0	United States.....	112.4	112.5
Northeast Region.....	6.6	13.0	Northeast Region.....	79.6	70.6
New England Division.....	BB	( <sup>1</sup> )	New England Division.....	FF	( <sup>1</sup> )
Connecticut.....	AA	( <sup>1</sup> )	Maine.....	CC	( <sup>1</sup> )
Middle Atlantic Division.....	BB	( <sup>1</sup> )	Vermont.....	BB	( <sup>1</sup> )
New York.....	BB	( <sup>1</sup> )	Massachusetts.....	FF	( <sup>1</sup> )
New Jersey.....	AA	( <sup>1</sup> )	Middle Atlantic Division.....	FF	( <sup>1</sup> )
North Central Region.....	100.0	69.0	New York.....	FF	( <sup>1</sup> )
East North Central Division.....	GG	68.3	North Central Region.....	FF	( <sup>1</sup> )
Ohio.....	18.9	( <sup>1</sup> )	East North Central Division.....	FF	( <sup>1</sup> )
Indiana.....	EE	( <sup>1</sup> )	Indiana.....	EE	( <sup>1</sup> )
Illinois.....	GG	( <sup>1</sup> )	Illinois.....	BB	( <sup>1</sup> )
Michigan.....	59.5	35.6	Wisconsin.....	CC	( <sup>1</sup> )
Wisconsin.....	BB	3.1	South Region.....	CC	( <sup>1</sup> )
West Region.....	7.8	( <sup>1</sup> )	South Atlantic Division.....	CC	( <sup>1</sup> )
Pacific Division.....	CC	( <sup>1</sup> )	South Carolina.....	CC	( <sup>1</sup> )
California.....	CC	( <sup>1</sup> )			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
RECTIFYING APPARATUS (36292)			OTHER ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE (36293)		
United States.....	152.6	131.6	United States.....	145.9	135.1
Northeast Region.....	61.1	63.6	Northeast Region.....	34.0	( <sup>1</sup> )
New England Division.....	BB	( <sup>1</sup> )	New England Division.....	17.7	( <sup>1</sup> )
Massachusetts.....	BB	( <sup>1</sup> )	Massachusetts.....	BB	6.0
Middle Atlantic Division.....	EE	( <sup>1</sup> )	Rhode Island.....	AA	( <sup>1</sup> )
New York.....	FF	11.6	Connecticut.....	12.5	2.8
New Jersey.....	4.6	( <sup>1</sup> )	Middle Atlantic Division.....	16.3	( <sup>1</sup> )
Pennsylvania.....	27.1	46.0	New York.....	5.5	10.8
North Central Region.....	70.2	54.0	New Jersey.....	2.5	7.7
East North Central Division.....	65.5	47.2	Pennsylvania.....	8.4	( <sup>1</sup> )
Ohio.....	38.8	32.8	North Central Region.....	88.7	( <sup>1</sup> )
Indiana.....	BB	( <sup>1</sup> )	East North Central Division.....	82.5	( <sup>1</sup> )
Illinois.....	19.4	9.4	Ohio.....	27.3	27.9
Wisconsin.....	BB	( <sup>1</sup> )	Indiana.....	25.3	20.6
West North Central Division.....	4.6	6.8	Illinois.....	17.7	11.4
Minnesota.....	2.3	4.7	Michigan.....	CC	( <sup>1</sup> )
Missouri.....	AA	( <sup>1</sup> )	Wisconsin.....	BB	( <sup>1</sup> )
South Region.....	8.8	6.1	West North Central Division.....	6.2	( <sup>1</sup> )
South Atlantic Division.....	CC	( <sup>1</sup> )	Minnesota.....	CC	( <sup>1</sup> )
West Virginia.....	BB	2.3	South Region.....	9.9	1.8
North Carolina.....	BB	( <sup>1</sup> )	South Atlantic Division.....	8.8	1.8
West Region.....	12.5	7.9	Virginia.....	CC	( <sup>1</sup> )
Pacific Division.....	EE	( <sup>1</sup> )	West Virginia.....	1.8	( <sup>1</sup> )
California.....	11.1	( <sup>1</sup> )	West Region.....	13.4	16.9
			Pacific Division.....	13.4	( <sup>1</sup> )
			California.....	EE	12.9

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9

EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9

GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>This State or division was not shown as a separate line in table 6B in the 1967 report for this industry.<sup>2</sup>As this product class is new for 1972, geographic data for 1967 are not available.

<sup>3</sup>The individual product codes included in this class of products for 1972 differ significantly from the 1967 definition. Products shifting into or out of this class of products represent more than 15 percent of the total shipments at the U.S. level. Thus, geographic information for 1967 are not shown.

<sup>4</sup>Data for product class 36219 were not published in 1967.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958	
3612	Transformers.....	1,436.1	1,344.5	1,377.9	1,295.8	1,253.2	1,161.0	692.2	638.3	
36122	Power and distribution transformers, except parts.....	913.9	902.6	902.4	886.4	856.9	790.3	434.5	421.7	
36124	Fluorescent lamp ballasts.....	160.6	} 269.8	283.8	270.8	228.4	{ 118.8	93.3	70.0	
36125	Specialty transformers (except fluorescent lamp ballasts).. Power regulators, hoosters, etc., and parts.....	225.3								111.4
36127		111.4	(145.9)	(164.0)	127.8	154.3	120.6	90.3	81.0	
36120	Transformers, n.s.k.....	24.9	26.2	(27.7)	10.8	(13.6)	14.9	4.4	5.6	
3613	Switchgear and switchboard apparatus.....	2,058.8	1,906.5	1,849.2	1,797.6	1,690.6	1,598.5	1,088.5	891.4	
36131	Switchgear, except ducts and relays.....	597.1	567.5	562.5	476.9	471.5	455.7	<sup>2</sup> 437.2	<sup>2</sup> 419.9	
36132	Power circuit breakers, all voltages.....	182.7	235.7	216.8	196.2	216.2	209.8	<sup>3</sup> 208.8	<sup>3</sup> 201.0	
36133	Low voltage panelboards, etc., 750 volts and under.....	539.0	532.0	497.5	504.9	444.7	378.0	304.2	224.2	
36134	Fuses and fuse equipment, under 2300 volts.....	99.7	96.2	91.9	82.2	70.4	69.2	41.9	30.7	
36135	Molded case circuit breakers, 750 volts and under.....	283.0	234.1	207.7	222.6	185.5	170.2	( <sup>3</sup> )	( <sup>3</sup> )	
36136	Duct, plug-in units, accessories, 750 volts and under.....	65.7	62.1	79.2	66.3	68.6	62.8	( <sup>2</sup> )	( <sup>2</sup> )	
36137	Relays, control circuit.....	223.4	156.2	150.9	214.1	194.6	193.7	( <sup>2</sup> )	( <sup>2</sup> )	
36130	Switchgear and switchboard apparatus, n.s.k.....	68.2	(22.7)	(42.7)	34.4	39.1	59.3	16.3	15.6	
3621	Motors and generators.....	2,635.7	2,432.7	2,478.0	2,490.7	2,348.6	2,319.0	1,578.2	1,291.4	
36211	Fractional horsepower motors.....	1,137.7	1,035.6	1,008.9	1,014.6	902.5	842.5	620.3	435.8	
36212	Integral HP motors and generators, except land transportation equipment.....	567.7	531.5	545.3	539.2	543.3	569.5	380.2	430.5	
36213	Land transportation motors, generators, and parts.....	106.3	126.9	121.7	130.2	134.0	133.4	89.8	52.4	
36214	Prime mover generator sets, except steam or hydraulic.....	247.3	155.9	200.6	198.4	210.2	232.7	104.6	73.9	
36217	Motor-generator sets, and other rotating equipment (fractional).....	228.8	} 369.9	384.7	402.0	355.7	345.6	246.2	164.1	
36218	Motor-generator sets and other rotating equipment (integral).....	122.9								
36219	Parts and supplies for motor-generator sets, except land transportation equipment.....	188.6	180.2	187.8	182.5	178.0	158.6	127.6	108.9	
36210	Motors and generators, n.s.k.....	36.4	32.7	(29.0)	23.8	24.9	36.6	9.4	25.9	
36220	Industrial controls.....	1,245.6	1,173.1	1,154.0	1,225.2	1,114.4	1,071.4	633.3	447.3	
3623	Welding apparatus, electric.....	570.0	481.8	470.4	534.1	450.2	432.9	324.9	233.2	
36231	Arc welding machines, components, and accessories except electrodes.....	218.5	178.8	169.1	205.0	185.8	140.1	104.5	65.8	
36232	Arc welding electrodes, metal.....	215.5	204.0	190.7	215.6	157.7	166.3	148.2	116.4	
36233	Resistance welders, components, accessories, and electrodes.....	115.1	88.6	101.1	100.8	105.9	88.0	68.3	47.8	
36230	Welding apparatus, electric, n.s.k.....	20.9	10.4	(9.5)	12.7	(0.8)	37.9	3.8	3.2	
3624	Carbon and graphite products.....	335.9	336.2	357.4	326.3	288.3	295.8	217.8	156.8	
36241	Electrodes.....	136.9	} 336.2	357.4	326.3	288.3	{ 147.6	103.6	75.3	
36249	All other carbon and graphite products.....	193.8								
36240	Carbon and graphite products, n.s.k.....	5.2								
3629	Electrical industrial apparatus, n.e.c.....	442.9	494.4	527.0	443.3	431.2	398.5	250.5	213.1	
36291	Capacitors for industrial use (not electronic).....	112.4	107.9	122.9	122.6	116.7	112.5	51.4	57.1	
36292	Rectifying apparatus.....	152.6	151.4	157.7	150.7	153.4	131.6	86.9	73.1	
36293	Other electrical equipment for industrial use.....	145.9	217.0	227.2	161.4	148.3	135.1	103.7	77.1	
36290	Electrical industrial apparatus, n.e.c., n.s.k.....	32.0	18.1	(19.2)	(8.6)	(12.8)	19.4	8.5	5.8	

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>In 1966 and previous years, product-class code 36136, "Duct, including plug-in units and accessories, 750 volts and under," and 36137, "Relays, control circuit," were included with product-class code 36131, "Switchgear, except ducts and relays."

<sup>3</sup>In 1966 and previous years, product-class code 36135, "Molded case circuit breakers, 750 volts and under," was included with product-class code 36132, "Power circuit breakers, all voltages."

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3612.--TRANSFORMERS						
	Materials, components, parts, containers, and supplies consumed, total.....		(X)	678.7	(X)	517.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	12.2	2.7	18.2	3.0
331012	Sheet and strip.....	.....do.....	177.1	42.0	138.6	43.4
331013	Plates.....	.....do.....	68.4	13.0	57.0	7.6
331015	Structural shapes.....	.....do.....	11.6	3.2	9.3	1.6
331019	All other carbon steel mill shapes and forms.....	.....do.....	51.7	16.6	21.0	10.6
331020	Alloy steel (except stainless).....	.....do.....	270.9	119.6	164.0	71.0
331031	Stainless steel mill shapes and forms.....	.....do.....	2.5	2.2	1.1	1.0
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	83.0	57.5	93.6	58.2
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	.....do.....	56.2	41.3	64.1	44.6
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	.....do.....	24.6	14.4	26.3	12.0
335143	Plate, sheet, and strip, including military cups and discs...	.....do.....	4.7	3.7	(NA)	4.8
335152	Pipe and tube.....	.....do.....	.5	.5	1.5	.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	.....do.....	33.6	13.7	17.8	9.0
335008	All other aluminum mill shapes and forms.....	.....do.....	23.6	14.1		
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.	(D)	319.0	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....do.....	(X)		(X)	226.0
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>1</sup> .....	.....do.....	(X)		(X)	23.4
INDUSTRY 3613.--SWITCHGEAR AND SWITCHBOARD APPARATUS						
	Materials, parts, containers, and supplies, total.....		(X)	753.5	(X)	603.6
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	49.7	8.6	39.8	6.5
331012	Sheet and strip.....	.....do.....	243.5	49.2	198.3	31.4
331013	Plates.....	.....do.....	13.1	2.7	17.8	2.8
331015	Structural shapes.....	.....do.....	35.5	6.5	14.8	2.6
331019	All other carbon steel mill shapes and forms.....	.....do.....	(NA)	2.2	(NA)	4.5
331020	Alloy steel (except stainless).....	.....do.....	4.5	1.5	5.1	2.2
	Stainless steel:					
331033	Sheet and strip.....	.....do.....	3.0	3.6	2.3	2.5
331050	All other stainless steel mill shapes and forms.....	.....do.....	1.4	2.0		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	12.6	10.8	10.6	10.0
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	.....do.....	8.1	9.2	7.9	6.9
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	.....do.....	50.7	41.2	41.9	31.8
335143	Plate, sheet, and strip, including military cups and discs...	.....do.....	21.0	17.0	13.5	9.4
335152	Pipe and tube.....	.....do.....	4.1	3.3	2.4	2.1
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	.....do.....	14.0	7.0	6.2	3.2
335405	Extruded shapes, including estruded rod, bar, pipe, tube, etc	.....do.....	24.1	10.6	13.8	6.0
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing).....	.....do.....	10.9	5.1	2.6	1.5
	Castings (rough and semifinished): <sup>2</sup>					
332045	Steel.....	1,000 s. tons.	3.7	2.4	3.4	2.4
336100	Aluminum and aluminum-base alloy.....	Million lb....	5.5	5.3	6.9	5.7
336200	Copper and copper-base alloy.....	.....do.....	11.2	14.0	14.1	13.2
	Industrial electrical control equipment (received for incorpora- tion only into other industrial electrical control equipment shipped, as such, by this plant):					
362200	Purchased from other companies.....	.....do.....	(X)	85.5	(X)	73.8
362209	Received from other plants of the same company.....	.....do.....	(X)	96.4	(X)	75.8
282130	Thermoplastic resins, including modified resins.....	Million lb....	(NA)	3.2	(NA)	2.3
282140	Thermosetting resins.....	.....do.....	(NA)	11.3	16.6	6.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....do.....	(X)	307.0	(X)	236.6
976000	Materials, containers, supplies, n.s.k. <sup>1</sup> .....	.....do.....	(X)	47.9	(X)	64.2

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3621.--MOTORS AND GENERATORS					
	Materials, parts, supplies, and containers, total.....		(X)	992.3	(X)	919.5
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	58.5	17.3	83.8	17.5
331012	Sheet and strip.....	..do.....	622.7	129.4	590.1	103.9
331013	Plates.....	..do.....	50.4	9.6	60.3	9.8
331017	Wire and wire products.....	..do.....	(NA)	2.6	(NA)	2.3
331019	All other carbon steel mill shapes and forms.....	..do.....	45.7	14.2	24.2	6.3
331020	Alloy steel (except stainless).....	..do.....	32.9	10.8	51.6	14.9
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.8	1.0	2.1	3.0
331050	All other stainless steel mill shapes and forms.....	..do.....	2.2	2.3		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	98.6	80.7	86.3	69.6
335791	Aluminum content.....	Mil. lb.....				
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	87.2	79.1	68.3	48.7
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	45.8	30.0	36.0	20.7
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	3.4	3.3	4.0	3.5
335152	Pipe and tube.....	..do.....	.1	.1	(NA)	.2
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	7.2	2.9	3.3	1.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	8.8	3.1		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing).....	..do.....	12.0	7.7	20.4	6.5
	Primary metals:					
333122	Copper and copper-base alloy refinery shapes.....	1,000 s. tons.	5.0	1.8	(D)	(D)
333401	Aluminum and aluminum-base alloy refinery shapes.....	..do.....	21.0	8.5	19.7	10.6
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	..do.....	119.6	54.5	90.7	35.5
332045	Steel.....	..do.....	(NA)	7.6	4.5	3.5
336100	Aluminum and aluminum-base alloy.....	Million lb....	21.6	15.1	22.8	13.6
336200	Copper and copper-base alloy.....	..do.....	1.3	1.9	3.2	2.6
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	3.6	3.1	4.9	3.3
	Engines: <sup>2</sup>					
351920	Diesel and semidiesel.....	1,000 units...	(NA)	17.3	5.6	17.7
351901	Gasoline and other carburetor.....	..do.....	62.8	7.6	(D)	(D)
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>2</sup> .....	..do.....	76.8	18.9	38.3	10.9
	Bearings:					
356218	Ball.....	.....	(X)	20.0	(X)	20.7
356201	Roller.....	.....	(X)	1.5	(X)	1.7
367408	Solid state semiconductors <sup>2</sup> .....	Million Units.	2.9	2.3	1.7	4.5
970099	All other materials, components, parts, containers, and supplies consumed.....	.....	(X)	396.7	(X)	<sup>3</sup> 402.0
976000	Materials, parts, supplies, and containers, n.s.k. <sup>1</sup> .....	.....	(X)	41.4	(X)	84.4
	INDUSTRY 3622.--INDUSTRIAL CONTROLS					
	Materials, parts, containers, and supplies, total.....		(X)	488.9	(X)	358.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	9.1	3.7	4.2	1.2
331012	Sheet and strip.....	..do.....	74.8	16.4	33.3	6.6
331013	Plates.....	..do.....	20.0	.4	2.7	.4
331015	Structural shapes.....	..do.....	2.7	.9	2.9	.5
331019	All other carbon steel mill shapes and forms.....	..do.....	6.0	2.0	1.2	.4
331020	Alloy steel (except stainless).....	..do.....	3.9	4.7	15.3	4.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....			1.7	2.1
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	12.2	11.7	(NA)	5.6
335791	Aluminum content.....	Million lb....				

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3622.--INDUSTRIAL CONTROLS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms, except casting:					
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	10.5	11.4	3.4	2.7
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	17.8	19.4	4.2	2.8
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	4.0	3.3	3.1	2.6
335152	Pipe and tube.....	...do.....	.5	.4	.5	.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	3.0	1.7	.9	.5
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	...do.....	.6	.5		
335008	All other aluminum shapes and forms (wire, rolled rod, and bar).....	...do.....	1.8	1.0	.9	.5
	Castings (rough and semifinished): <sup>2</sup>					
332045	Steel.....	1,000 s. tons.	3.0	2.8	5.2	3.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.3	2.5	5.2	1.9
336200	Copper and copper-base alloy.....	...do.....	.2	.5	1.5	1.1
	Industrial electrical control equipment:					
362200	Purchased from other companies.....	.....	(X)	52.2	(X)	52.4
362209	Received from other plants of the same company.....	.....	(X)	45.0	(X)	47.8
282130	Thermoplastic resins.....	Million lb....	2.3	2.2	1.9	.9
282140	Thermosetting resins.....	...do.....	15.0	7.3	(NA)	2.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	242.0	(X)	164.8
976000	Materials, containers, supplies, n.s.k. <sup>1</sup> .....	.....	(X)	58.9	(X)	53.8
	INDUSTRY 3623.--WELDING APPARATUS, ELECTRIC					
	Materials, parts, containers, and supplies, total.....	.....	(X)	283.0	(X)	204.4
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	33.3	7.0	8.9	1.9
331012	Sheet and strip.....	...do.....	74.0	16.9	55.0	9.4
331015	Structural shapes.....	...do.....	3.3	.9	4.3	.7
331017	Wire and wire products.....	...do.....	277.7	44.3	182.4	30.6
331019	All other carbon steel mill shapes and forms.....	...do.....	10.3	2.6	28.1	4.1
331020	Alloy steel, except stainless.....	...do.....	30.6	13.0	14.4	6.4
	Stainless steel:					
331033	Sheet and strip.....	...do.....	8.3	13.7	4.6	6.7
331050	All other stainless steel mill shapes and forms.....	...do.....				
	Insulated wire and cable:					
335790	Copper content.....	Mil. lb.....	9.3		9.1	
335791	Aluminum content.....	...do.....	(D)	9.1	(NA)	7.4
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	2.7	2.7	3.1	2.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	5.2	6.2	4.0	4.3
335143	Plate, sheet and strip, including military cups and discs...	...do.....	1.3	1.3	1.4	1.5
335152	Pipe and tube.....	...do.....	.8	.9	1.0	.8
	Aluminum and aluminum-base alloy:					
335008	Wire, rolled rod, and bar, powder, welded tubing, extruded shapes, etc.....	...do.....	3.1	1.9	(NA)	(NA)
336200	Copper and copper-base alloy castings <sup>2</sup> .....	...do.....	3.5	4.5	3.1	3.3
970099	All other materials, components, parts, containers and supplies consumed.....	.....	(X)	140.8	(X)	94.4
976000	Materials, containers, supplies, n.s.k. <sup>1</sup> .....	.....	(X)	17.2	(X)	26.9
	INDUSTRY 3624.--CARBON AND GRAPHITE PRODUCTS					
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>3</sup> 107.9	(X)	100.9
	Mill shapes and forms (except castings):					
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)		(D)	
335791	Aluminum content.....	Million lb....	(D)	(D)	(NA)	(D)
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	1.1	1.3	.9	1.0
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	.7	.6	(D)	(D)
335143	Plate, sheet and strip, including military cups and discs...	...do.....	.3	.3	.5	.4
335152	Pipe and tube.....	...do.....	(Z)	(Z)	(D)	(D)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3624.--CARBON AND GRAPHITE PRODUCTS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms (except castings):					
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	} (D)	(D)	(NA)	(Z)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....				
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	102.3	(X)	<sup>2</sup> 89.7
976000	Materials, parts, containers, and supplies consumed, n.s.k. <sup>1</sup> .....	.....	(X)	3.3	(X)	9.8
	INDUSTRY 3629.--ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.					
	Materials, parts, containers, and supplies, total.....	.....	(X)	175.0	(X)	125.6
	Mill shapes and forms (except castings):					
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	7.4	(NA)	8.4
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	6.6	6.8	(NA)	5.1
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	( <sup>4</sup> )	( <sup>4</sup> )	(NA)	3.8
335143	Plate, sheet and strip, including military cups and discs.....	...do.....	.5	.6		
335152	Pipe and tube.....	...do.....	<sup>4</sup> 6.1	<sup>4</sup> 4.7		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	4.7	3.0	10.2	3.7
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	12.2	4.6	1.5	.9
335008	All other aluminum mill shapes and forms (wire, rolled rod, and bar, powder, welded tubing, etc.).....	...do.....			.5	.5
367408	Solid state semiconductors.....	Million units.	10.6	6.3	(D)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	111.2	(X)	<sup>3</sup> 80.7
976000	Materials, containers, supplies, n.s.k. <sup>1</sup> .....	.....	(X)	30.4	(X)	22.5

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.

<sup>2</sup>Excludes quantities produced and consumed in the same establishments.

<sup>3</sup>Includes cost of materials for which symbol (D) appears.

<sup>4</sup>Data for material code 335102 are combined with code 335152 to avoid disclosing figures for individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3612.--TRANSFORMERS					
	Purchased fuels and electric energy.....		(X)	13.2	(X)	(NA) #
	Purchased fuels, total.....		(X)	5.0	(X)	(NA)
121005	Coal.....	1,000 s. tons....	54.1	.5	(NA)	(NA)
331212	Coke.....	...do.....	-	(NA)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	443.8	2.0	(NA)	(NA)
291141	Distillate.....	...do.....	53.1	.3	(NA)	(NA)
291151	Residual.....	...do.....	390.7	1.7	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.0	1.8	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.6	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	761.9	8.2	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	3.3	-	(NA)	(NA)
	INDUSTRY 3613.--SWITCHGEAR AND SWITCHBOARD APPARATUS					
	Purchased fuels and electric energy.....		(X)	11.7	(X)	(NA)
	Purchased fuels, total.....		(X)	3.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	15.2	.1	(NA)	(NA)
331212	Coke.....	...do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	195.2	.9	(NA)	(NA)
291141	Distillate.....	...do.....	108.7	.5	(NA)	(NA)
291151	Residual.....	...do.....	86.5	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.2	1.6	(NA)	(NA)
960011	Other fuels.....		(X)	.3	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	643.3	8.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	1.9	-	(NA)	(NA)
	INDUSTRY 3621.--MOTORS AND GENERATORS					
	Purchased fuels and electric energy.....		(X)	27.2	(X)	18.6
	Purchased fuels, total.....		(X)	10.5	(X)	6.7
121005	Coal.....	1,000 s. tons....	72.8	.7	86.0	.7
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	137.8	.6	111.9	.4
291141	Distillate.....	...do.....	75.9	.4	86.2	.3
291151	Residual.....	...do.....	61.7	.2	25.7	.1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	9.0	5.1	4.8	2.8
960011	Other fuels.....		(X)	2.9	(X)	.7
975000	Fuels, n.s.k.....		(X)	1.2	(X)	2.1
960012	Purchased electric energy.....	Million kWh.....	1,399.2	16.7	1,082.0	11.9
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	40.0	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	6.0	-	4.5	-
	INDUSTRY 3622.--INDUSTRIAL CONTROLS					
	Purchased fuels and electric energy.....		(X)	9.0	(X)	(NA)
	Purchased fuels, total.....		(X)	2.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	112.3	.5	(NA)	(NA)
291141	Distillate.....	...do.....	93.9	.4	(NA)	(NA)
291151	Residual.....	...do.....	18.4	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.7	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	555.7	6.6	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	1.7	-	(NA)	(NA)

See footnotes at end of table.



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3623.--WELDING APPARATUS, ELECTRIC					
	Purchased fuels and electric energy.....		(X)	4.4	(X)	(NA)
	Purchased fuels, total.....		(X)	1.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	7.8	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	20.6	.1	(NA)	(NA)
291141	Distillate.....	..do.....	15.4	.1	(NA)	(NA)
291151	Residual.....	..do.....	5.1	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.0	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	219.6	2.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	1.0	-	(NA)	(NA)
	INDUSTRY 3624.--CARBON AND GRAPHITE PRODUCTS					
	Purchased fuels and electric energy.....		(X)	19.1	(X)	13.9
	Purchased fuels, total.....		(X)	5.9	(X)	4.7
121005	Coal.....	1,000 s. tons.....	6.6	.1	31.2	.2
331212	Coke.....	..do.....	(S)	.2	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	110.8	.5	38.7	.1
291141	Distillate.....	..do.....	22.9	.1	( <sup>2</sup> )	( <sup>2</sup> )
291151	Residual.....	..do.....	87.9	.4	<sup>2</sup> 38.7	<sup>2</sup> .1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	8.5	4.9	8.1	4.0
960011	Other fuels.....		(X)	.2	(X)	.1
975000	Fuels, n.s.k.....		(X)	.1	(X)	.2
960012	Purchased electric energy.....	Million kWh.....	1,852.9	13.2	1,620.8	9.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	4.9	-	4.6	-
	INDUSTRY 3629.--ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	4.2	(X)	(NA)
	Purchased fuels, total.....		(X)	1.2	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	.2	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	96.7	.4	(NA)	(NA)
291141	Distillate.....	..do.....	49.2	.2	(NA)	(NA)
291151	Residual.....	..do.....	47.5	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.1	.5	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	245.4	3.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power <sup>1</sup> .....	Bil. kWh equiv....	.8	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Represents the quantity of purchased electric energy and the kilowatt hours equivalent of all fuels used for heat and power.

<sup>2</sup>Fuel codes 291141 (distillate fuel oil) and 291151 (residual fuel oil) have been combined to avoid disclosure of figures for individual companies.



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# Household Appliances

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# EXPLANATORY TEXT

## HOUSEHOLD APPLIANCES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3631—Household Cooking Equipment
- 3632—Household Refrigerators and Home and Farm Freezers\*
- 3633—Household Laundry Equipment
- 3634—Electric Housewares and Fans
- 3635—Household Vacuum Cleaners
- 3636—Sewing Machines
- 3639—Household Appliances, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589. For a detailed list of products of industry 3631, Household Cooking

Equipment, refer to table 6A, product codes 36311 11 to 36312 98.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number or content from the previous classification.

Value of shipments and other receipts of the Household Cooking Equipment Industry in 1972 totaled \$925 million. This included shipments of household cooking equipment (primary products) valued at \$764 million, shipments of other products (secondary products) valued at \$78 million, and miscellaneous receipts (mainly resales) of \$83 million.

Shipments of household cooking equipment (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of household cooking equipment (primary products) from establishments classified in industry 3631 in 1972 represented 74 percent (coverage ratio) of these products valued at \$1,027 million shipped by all industries. In 1967, the coverage ratio was 76 percent. Other industries shipping household cooking equipment consisted mainly of industry 3585, Refrigeration and Heating Equipment (\$92 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3631, these establishments accounted for less than 1 percent of value of shipments.

## INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS AND FREEZERS (Short Title)

This industry comprises establishments primarily engaged in manufacturing household refrigerators and home and farm freezers.

Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and all refrigeration compressor and condenser units are classified in industry 3585, and room dehumidifiers are

\*Note that the "short title" for this industry is used throughout the report.

classified in industry 3634. For a detailed list of products of industry 3632, Household Refrigerators and Freezers, refer to table 6A, product codes 36321 07 to 36322 47.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3632, these establishments accounted for less than 1 percent of value of shipments.

#### INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing washing machines, wringers, dryers, and ironers for household use as well as coin-operated washers and dryers.

Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582. For a detailed list of products of industry 3633, Household Laundry Equipment, refer to table 6A, product codes 36331 31 to 36333 95.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content of the industry has been slightly changed from the previous classification system. (Small coin-operated washers and dryers and parts were added to the industry.)

Value of shipments and other receipts of the Household Laundry Equipment Industry in 1972 totaled \$1,356 million. This included shipments of household laundry equipment (primary products) valued at \$1,169 million, shipments of other products (secondary products) valued at \$166 million, and miscellaneous receipts (mainly resales) of \$22 million.

Shipments of household laundry equipment (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent.

Shipments of household laundry equipment (primary products) from establishments classified in industry 3633 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,290 million shipped by all industries. In 1967, the coverage ratio was 90 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3633, these establishments accounted for less than 1 percent of value of shipments.

#### INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS

This industry comprises establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans including ventilating and exhaust household-type fans. Important products in this industry include electric air heaters, electrically heated bed coverings, blenders, broilers, deep fat fryers, flat irons, food mixers, hot plates, percolators and coffeemakers, roasters, toasters, desk and bracket fans, hassock and floor fans, window-type propeller fans, rollabout fans, and household and kitchen ventilating and exhaust fans.

Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans are classified in industry 3564. For a detailed list of products of industry 3634, refer to table 6A, product codes 36341 37 to 36344 31.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electric Housewares and Fans Industry in 1972 totaled \$1,613 million. This included shipments of electric housewares and fans (primary products) valued at \$1,318 million, shipments of other products (secondary products) valued at \$174 million, and miscellaneous receipts (mainly resales) of \$121 million.

Shipments of electric housewares and fans (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent.



Shipments of electric housewares and fans (primary products) from establishments classified in industry 3634 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,448 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3634, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS**

This industry comprises establishments primarily engaged in manufacturing vacuum cleaners for household use.

Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589, and installation of built-in vacuum cleaner systems in industry 1796. For a detailed list of products of industry 3635, Household Vacuum Cleaners, refer to table 6A, product codes 36350 11 to 36350 71.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Household Vacuum Cleaner Industry in 1972 totaled \$468 million. This included shipments of household vacuum cleaners (primary products) valued at \$372 million, shipments of other products (secondary products) valued at \$91 million, and miscellaneous receipts (mainly resales) of \$5 million.

Shipments of household vacuum cleaners (primary products) in 1972 represented 80 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 75 percent.

Shipments of household vacuum cleaners (primary products) from establishments classified in industry 3635 in 1972 represented 85 percent (coverage ratio) of these products valued at \$439 million shipped by all industries. In 1967, the coverage ratio was 84 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3635, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3636.—SEWING MACHINES**

This industry comprises establishments primarily engaged in manufacturing sewing machines for domestic and industrial use. For a detailed list of products of industry 3636, Sewing Machines, refer to table 6A, product codes 36360 21 to 36360 81.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Sewing Machines Industry in 1972 totaled \$160 million.

Shipments of sewing machines (primary products) from establishments classified in industry 3636 in 1972 represented 93 percent (coverage ratio) of these products valued at \$152 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3636, these establishments accounted for 1.9 percent of value of shipments.

#### **INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as hot water heaters, dishwashers, and food-waste disposal units. For a detailed list of products of industry 3639, Household Appliances, N.E.C., refer to table 6A, product codes 36391 11 to 36399 91.



The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Household Appliances, N.E.C., Industry in 1972 totaled \$682 million. This included shipments of household appliances, n.e.c., (primary products) valued at \$620 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts (mainly resales) of \$16 million.

Shipments of household appliances, n.e.c., (primary products) in 1972 represented 93 percent (specialization ratio) of

the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent.

Shipments of household appliances, n.e.c., (primary products) from establishments classified in industry 3639 in 1972 represented 76 percent (coverage ratio) of these products valued at \$816 million shipped by all industries. In 1967, the coverage ratio was 79 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3639, these establishments accounted for less than 1 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3631.--HOUSEHOLD COOKING EQUIPMENT															
1972 Census.....	82	49	22.9	202.0	18.1	36.2	138.7	404.3	524.5	924.7	25.4	(NA)	166.8	91	74
1971 ASM.....	(NA)	(NA)	21.4	173.7	16.6	33.0	116.1	376.5	409.4	782.9	35.0	202.6	153.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.7	159.0	16.9	33.2	107.1	301.0	384.4	681.3	35.1	170.0	148.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	21.6	152.8	16.8	33.1	103.6	310.9	365.7	679.0	11.9	144.8	123.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	21.1	144.9	16.7	33.4	101.0	307.6	331.0	635.5	15.8	140.7	117.9	(NA)	(NA)
1967 Census.....	73	49	20.4	128.4	16.0	31.3	88.7	254.2	293.6	551.9	8.6	132.3	107.9	92	76
1966 ASM.....	(NA)	(NA)	20.7	129.9	16.4	32.9	91.8	253.7	305.8	548.5	10.1	(NA)	112.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	20.8	125.2	16.4	53.2	86.6	264.0	297.6	553.6	13.2	(NA)	106.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	19.8	117.8	15.4	30.2	76.9	233.8	265.8	500.0	9.6	96.9	87.2	(NA)	(NA)
1963 Census.....	83	53	19.2	111.3	15.1	30.4	75.6	230.3	253.5	473.5	8.2	93.5	84.9	87	72
1962 ASM.....	(NA)	(NA)	18.8	102.7	14.2	27.2	66.5	192.2	217.0	411.9	4.7	89.7	69.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	18.9	102.1	14.2	27.9	65.9	184.9	218.1	401.4	3.7	(NA)	71.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.1	104.1	15.0	29.2	63.1	186.2	219.7	407.3	7.0	(NA)	67.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.0	96.7	15.0	30.0	66.1	194.3	216.9	411.4	6.2	(NA)	61.0	(NA)	(NA)
1958 Census.....	69	55	18.2	89.2	14.1	28.2	60.3	181.1	184.9	364.9	4.0	(NA)	61.4	88	72
INDUSTRY 3632.--HOUSEHOLD REFRIGERATORS AND FREEZERS															
1972 Census.....	36	25	34.1	305.3	28.6	55.6	233.0	790.8	944.8	1,719.7	25.5	(NA)	280.0	75-80	80-85
1971 ASM.....	(NA)	(NA)	32.5	265.7	27.0	51.9	201.5	808.4	810.6	1,594.1	26.2	259.4	246.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	48.8	418.4	40.2	78.7	318.4	849.8	1,074.8	1,923.5	41.5	461.5	311.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	51.1	414.0	42.1	81.8	216.4	923.4	1,118.0	2,036.4	47.8	441.1	318.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	54.8	417.0	45.6	89.5	322.1	915.8	1,158.1	2,075.4	33.0	481.5	341.3	(NA)	(NA)
1967 Census.....	36	25	53.0	377.8	43.9	84.5	290.2	794.0	1,025.5	1,785.4	37.3	467.6	336.0	59	99
1966 ASM.....	(NA)	(NA)	53.9	388.2	45.2	88.8	300.6	752.2	965.8	1,674.9	32.1	(NA)	314.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	48.6	344.6	39.9	81.5	265.7	740.9	858.1	1,593.5	40.8	(NA)	255.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	45.8	307.5	37.8	76.3	236.9	680.2	805.5	1,455.0	23.6	365.0	242.7	(NA)	(NA)
1963 Census.....	34	25	43.1	280.0	35.2	70.0	212.2	631.3	696.1	1,306.5	21.8	351.0	208.6	66	99
1962 ASM.....	(NA)	(NA)	42.1	259.1	34.8	73.0	199.4	570.4	661.4	1,205.2	13.3	340.8	179.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	41.7	253.6	33.9	66.8	192.4	470.1	622.0	1,101.6	13.8	(NA)	164.0	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	47.1	265.1	38.8	73.9	202.9	525.5	660.7	1,156.8	16.0	(NA)	180.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	47.0	253.6	39.0	77.4	195.1	537.3	672.9	1,199.4	*12.5	(NA)	163.8	(NA)	(NA)
1958 Census.....	26	26	41.5	221.4	33.2	65.6	167.4	433.4	537.6	1,002.3	9.9	(NA)	140.5	74	98
INDUSTRY 3633.--HOUSEHOLD LAUNDRY EQUIPMENT															
1972 Census.....	29	24	23.6	223.1	19.4	36.9	171.2	684.7	691.2	1,356.5	31.0	(NA)	169.3	88	91
1971 ASM.....	(NA)	(NA)	21.1	193.9	17.0	33.1	143.6	593.6	591.2	1,191.0	18.6	292.5	151.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	22.1	183.3	17.8	33.6	134.2	504.3	587.2	1,079.5	27.7	285.1	161.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.2	183.9	19.8	36.5	137.0	538.1	591.7	1,122.0	30.7	276.9	160.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	23.5	174.0	19.2	36.8	130.5	500.9	598.7	1,097.1	26.0	254.1	141.5	(NA)	(NA)
1967 Census.....	35	28	22.2	154.2	17.8	33.7	113.8	408.4	562.3	982.5	31.8	251.3	138.6	87	90
1966 ASM.....	(NA)	(NA)	23.1	160.1	18.4	36.0	115.5	415.8	556.7	946.9	19.7	(NA)	153.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	21.0	140.2	16.1	32.1	98.1	392.9	482.9	889.2	19.2	(NA)	120.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	20.4	131.8	16.5	32.8	97.8	379.7	466.4	831.8	14.4	191.5	135.1	(NA)	(NA)
1963 Census.....	39	28	18.3	115.4	14.7	28.8	85.9	353.9	416.0	760.2	9.2	183.6	110.8	89	87
1962 ASM.....	(NA)	(NA)	21.1	131.6	15.6	30.6	88.5	346.4	414.8	755.7	6.4	179.3	110.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.5	126.7	15.6	30.4	83.6	313.8	395.7	715.4	7.1	(NA)	101.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	23.4	131.8	17.3	32.9	88.9	279.1	433.4	723.0	10.7	(NA)	107.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	25.9	142.1	19.4	37.5	96.6	347.4	488.7	835.8	11.1	(NA)	121.2	(NA)	(NA)
1958 Census.....	39	33	24.6	134.3	18.0	35.8	89.6	324.5	427.2	738.9	7.2	(NA)	118.5	91	91
INDUSTRY 3634.--ELECTRIC HOUSEWARES AND FANS															
1972 Census.....	299	167	51.3	357.5	41.0	79.4	240.9	909.1	735.6	1,613.3	32.6	(NA)	314.1	88	91
1971 ASM.....	(NA)	(NA)	47.1	303.1	37.7	72.3	202.9	725.3	608.8	1,331.6	27.1	299.5	290.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	49.5	298.8	40.3	77.0	200.3	706.8	596.8	1,275.5	27.9	290.5	298.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	47.5	276.4	38.4	74.4	184.3	713.6	606.4	1,310.7	26.3	283.6	265.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	44.2	249.4	35.3	68.6	164.0	623.6	538.0	1,174.3	22.2	208.1	233.9	(NA)	(NA)
1967 Census.....	290	143	44.6	241.1	35.5	69.1	161.0	590.4	518.5	1,112.0	24.6	204.2	236.2	90	86
1966 ASM.....	(NA)	(NA)	44.7	236.3	36.6	70.4	161.3	600.2	504.6	1,127.8	25.9	(NA)	237.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	41.3	211.3	33.9	68.4	144.8	547.4	464.0	980.2	26.3	(NA)	187.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	38.3	190.9	30.3	60.5	128.7	478.4	405.9	889.1	14.7	198.0	150.9	(NA)	(NA)
1963 Census.....	312	136	38.8	188.3	31.1	59.6	126.9	463.8	394.6	850.3	17.0	187.9	159.8	87	81
1962 ASM.....	(NA)	(NA)	35.0	170.6	27.9	52.2	112.9	404.0	355.7	740.5	10.7	181.6	138.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	31.8	151.7	25.3	47.7	100.0	360.0	310.3	671.1	8.7	(NA)	123.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	32.3	152.6	25.8	49.1	101.5	355.7	293.0	628.6	11.2	(NA)	129.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	30.2	139.1	23.8	45.9	93.1	335.0	261.0	596.2	10.7	(NA)	104.9	(NA)	(NA)
1958 Census.....	311	105	29.1	128.8	22.5	42.8	84.6	301.0	245.1	559.1	10.0	(NA)	101.0	86	82

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3635.--HOUSEHOLD VACUUM CLEANERS															
1972 Census.....	36	24	11.2	98.7	8.4	16.3	68.0	299.5	176.2	467.7	9.7	(NA)	74.3	80	85
1971 ASM .....	(NA)	(NA)	9.7	79.7	7.3	14.2	55.0	251.7	135.4	386.8	5.0	106.2	63.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	9.7	72.6	7.5	14.3	50.6	224.1	126.8	346.1	13.1	104.6	61.0	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	9.7	67.8	7.3	13.8	47.3	206.8	124.3	332.3	13.2	79.6	67.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	9.2	63.6	7.1	13.5	43.6	195.5	124.5	320.4	9.9	69.7	56.8	(NA)	(NA)
1967 Census.....	34	17	9.2	58.8	7.1	13.2	39.6	181.4	116.5	293.2	6.5	62.3	56.5	75	84
1966 ASM .....	(NA)	(NA)	8.2	51.1	6.2	11.9	34.3	156.1	111.2	252.6	4.6	(NA)	49.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.4	40.8	4.8	9.1	26.3	131.4	82.3	210.6	6.6	(NA)	32.0	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	5.7	35.7	4.1	8.1	22.7	119.7	65.2	184.7	3.9	43.6	28.1	(NA)	(NA)
1963 Census.....	34	13	5.7	35.5	4.2	8.2	22.7	116.1	65.3	175.4	5.7	39.3	30.1	87	80
1962 ASM .....	(NA)	(NA)	5.6	33.4	4.0	7.8	20.7	107.5	59.7	163.6	4.2	33.7	23.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	5.7	33.3	4.0	7.6	19.7	90.2	58.0	150.8	2.8	(NA)	20.8	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	5.7	33.6	4.1	7.9	20.3	94.1	62.4	154.4	2.3	(NA)	23.0	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	5.9	33.6	4.2	8.5	20.7	90.2	65.5	153.7	4.2	(NA)	21.8	(NA)	(NA)
1958 Census .....	27	14	5.3	29.9	3.7	7.5	18.0	84.2	55.4	142.0	2.2	(NA)	16.7	93	83
INDUSTRY 3636.--SEWING MACHINES															
1972 Census.....	75	18	5.3	54.6	4.4	8.6	41.6	124.6	37.0	159.6	9.3	(NA)	55.2	95-100	93
1971 ASM .....	(NA)	(NA)	5.8	51.5	4.5	8.6	36.0	111.3	35.6	143.0	4.4	80.5	55.0	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	6.3	55.4	4.9	9.5	38.7	100.6	34.7	135.9	6.8	76.5	52.6	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	6.3	53.8	5.0	10.1	39.4	108.8	39.8	145.6	7.4	68.1	50.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	6.0	45.7	4.6	9.3	33.0	93.1	35.1	134.9	4.1	63.1	45.9	(NA)	(NA)
1967 Census.....	86	21	6.4	49.3	4.9	9.7	34.7	94.1	31.2	123.6	5.6	70.9	51.2	95-99	96
1966 ASM .....	(NA)	(NA)	6.1	48.2	4.6	10.8	34.8	97.4	31.9	120.8	3.5	(NA)	45.5	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.7	49.1	4.8	10.4	32.8	88.5	32.1	128.7	2.6	(NA)	40.0	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	7.6	51.8	5.7	11.5	34.8	74.1	31.4	120.1	2.7	68.9	49.2	(NA)	(NA)
1963 Census.....	86	17	7.6	52.0	5.8	12.1	36.3	98.3	30.6	117.2	2.6	67.7	63.7	90-95	96
1962 ASM .....	(NA)	(NA)	6.8	44.7	4.5	10.1	29.1	81.5	48.3	120.3	1.5	64.7	47.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	9.9	58.9	6.7	13.8	38.0	89.7	50.1	136.8	3.5	(NA)	45.4	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	10.4	62.4	7.1	15.7	41.2	87.5	50.3	134.9	4.3	(NA)	43.1	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	9.8	53.5	7.1	13.9	34.8	72.2	49.4	128.6	(S)	(NA)	40.8	(NA)	(NA)
1958 Census .....	85	17	9.6	48.3	7.0	13.3	32.8	62.0	44.6	109.3	5.4	(NA)	49.2	97	94
INDUSTRY 3639.--HOUSEHOLD APPLIANCES, N.E.C.															
1972 Census.....	85	48	14.0	123.5	10.7	20.9	83.4	341.4	363.1	681.9	18.3	(NA)	103.6	93	76
1971 ASM .....	(NA)	(NA)	14.8	123.8	11.2	21.8	82.3	306.7	320.5	632.3	11.4	149.0	91.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	15.8	124.4	12.1	23.9	81.2	282.9	319.7	591.4	13.5	150.8	99.2	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	13.9	104.3	10.5	20.8	65.8	250.5	278.8	529.0	14.3	133.4	81.7	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	13.5	97.9	10.3	20.9	65.1	240.4	277.5	517.8	13.2	120.2	81.2	(NA)	(NA)
1967 Census.....	83	54	13.4	90.9	10.0	20.6	60.1	217.7	265.6	479.9	10.7	112.8	75.5	87	79
1966 ASM .....	(NA)	(NA)	12.9	84.7	9.9	20.3	57.2	211.7	242.8	448.9	15.6	(NA)	65.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	13.0	85.1	10.1	20.3	58.8	225.0	253.6	475.7	11.7	(NA)	64.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	13.1	84.3	9.9	19.9	57.5	221.5	248.8	466.8	9.0	98.1	61.6	(NA)	(NA)
1963 Census.....	112	67	13.1	81.6	9.9	19.9	54.3	204.2	233.1	435.5	6.7	93.2	58.1	79	79
1962 ASM .....	(NA)	(NA)	13.2	79.5	9.8	19.6	52.9	172.3	241.7	412.6	7.5	88.6	47.9	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	12.2	73.3	8.6	17.4	46.6	141.0	209.7	353.2	*5.6	(NA)	46.6	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	12.8	75.7	9.2	18.3	46.3	146.9	211.8	357.3	8.3	(NA)	54.0	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	14.4	81.5	10.0	19.0	49.2	161.7	235.4	399.0	(S)	(NA)	56.9	(NA)	(NA)
1958 Census .....	94	71	14.6	79.7	10.1	20.0	47.4	162.7	212.0	378.8	4.4	(NA)	56.6	79	83

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3631	Industry 3632	Industry 3633	Industry 3634	Industry 3635	Industry 3636	Industry 3639
1972.....	72	30	20	247	34	72	70
1967.....	66	31	25	248	34	83	71
1963.....	77	31	33	286	34	83	102

(NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual men-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3631.--HOUSEHOLD COOKING EQUIPMENT											
1972 Census.....	8,821	(NA)	79	2,000	3.83	.57	.79	(NA)	17,655	50	11.17
1971 ASM.....	8,117	9,467	78	1,988	3.52	.52	.74	.26	17,593	46	11.41
1970 ASM.....	7,327	7,834	78	1,964	3.23	.56	.80	.25	13,871	53	9.07
1969 ASM.....	7,074	6,700	78	1,970	3.13	.54	.76	.21	14,394	49	9.39
1968 ASM.....	6,867	6,670	79	2,000	3.02	.52	.75	.22	14,578	47	9.21
1967 Census.....	6,308	6,490	78	1,959	2.84	.53	.76	.24	12,491	51	8.13
1966 ASM.....	6,270	(NA)	79	2,003	2.79	.56	.79	(NA)	12,245	51	7.71
1965 ASM.....	6,020	(NA)	79	3,252	1.63	.54	.76	(NA)	12,692	47	4.96
1964 ASM.....	5,939	4,890	78	1,962	2.54	.53	.77	.19	11,787	50	7.73
1963 Census.....	5,798	4,870	79	2,004	2.49	.54	.77	.20	12,000	48	7.59
1962 ASM.....	5,467	4,770	75	1,922	2.44	.53	.78	.22	10,231	53	7.06
1961 ASM.....	5,407	(NA)	75	1,967	2.36	.54	.80	(NA)	9,790	55	6.62
1960 ASM.....	5,174	(NA)	75	1,942	2.16	.54	.80	(NA)	9,251	56	6.38
1959 ASM.....	5,098	(NA)	79	2,001	2.21	.53	.76	(NA)	10,236	50	6.48
1958 Census.....	4,916	(NA)	78	1,997	2.14	.51	.75	(NA)	9,976	49	6.43
INDUSTRY 3632.--HOUSEHOLD REFRIGERATORS AND FREEZERS											
1972 Census.....	8,953	(NA)	84	1,944	4.19	.55	.73	(NA)	23,191	39	14.22
1971 ASM.....	8,175	7,982	83	1,922	3.88	.51	.68	.16	24,874	33	15.58
1970 ASM.....	8,574	9,457	82	1,958	4.05	.56	.78	.24	17,414	49	10.80
1969 ASM.....	8,102	8,630	82	1,943	3.87	.55	.75	.22	18,070	45	11.29
1968 ASM.....	7,609	8,790	83	1,963	3.60	.56	.76	.23	16,712	46	10.23
1967 Census.....	7,126	8,820	83	1,923	3.44	.57	.79	.26	14,976	48	9.40
1966 ASM.....	7,198	(NA)	84	1,963	3.39	.58	.81	(NA)	13,949	52	8.47
1965 ASM.....	7,084	(NA)	82	2,044	3.26	.54	.75	(NA)	15,232	47	9.09
1964 ASM.....	6,712	7,970	82	2,022	3.10	.55	.76	.25	14,850	45	8.91
1963 Census.....	6,501	8,140	82	1,986	3.03	.53	.75	.27	14,659	44	9.02
1962 ASM.....	6,152	8,100	83	2,096	2.73	.55	.76	.28	13,546	45	7.81
1961 ASM.....	6,079	(NA)	81	1,973	2.88	.56	.79	(NA)	11,269	54	7.04
1960 ASM.....	5,624	(NA)	82	1,903	2.75	.57	.80	(NA)	11,149	50	7.11
1959 ASM.....	5,393	(NA)	83	1,987	2.52	.56	.77	(NA)	11,429	47	6.94
1958 Census.....	5,337	(NA)	80	1,977	2.55	.54	.76	(NA)	10,444	51	6.61
INDUSTRY 3633.--HOUSEHOLD LAUNDRY EQUIPMENT											
1972 Census.....	9,453	(NA)	82	1,902	4.64	.51	.67	(NA)	29,013	32	18.56
1971 ASM.....	9,190	13,863	81	1,947	4.34	.50	.66	.25	28,133	33	17.93
1970 ASM.....	8,294	12,900	81	1,888	3.99	.54	.71	.26	22,819	36	15.01
1969 ASM.....	7,599	11,420	82	1,843	3.75	.53	.69	.25	22,236	34	14.74
1968 ASM.....	7,404	10,810	82	1,917	3.55	.55	.70	.23	21,315	35	13.61
1967 Census.....	6,959	11,320	81	1,887	3.38	.57	.73	.26	18,433	38	12.13
1966 ASM.....	6,925	(NA)	80	1,955	3.21	.59	.76	(NA)	17,988	38	11.55
1965 ASM.....	6,672	(NA)	77	1,992	3.06	.54	.70	(NA)	18,702	36	12.24
1964 ASM.....	6,450	9,390	81	1,990	2.98	.56	.72	.23	18,575	35	11.56
1963 Census.....	6,291	10,030	80	1,956	2.98	.55	.70	.24	19,291	33	12.28
1962 ASM.....	6,239	8,500	74	1,967	2.89	.55	.72	.24	16,424	38	11.30
1961 ASM.....	5,900	(NA)	73	1,952	2.75	.55	.73	(NA)	14,611	40	10.31
1960 ASM.....	5,643	(NA)	74	1,908	2.70	.60	.78	(NA)	11,949	47	8.48
1959 ASM.....	5,484	(NA)	75	1,936	2.57	.58	.75	(NA)	13,409	41	9.26
1958 Census.....	5,459	(NA)	73	1,984	2.51	.58	.76	(NA)	13,192	41	9.08
INDUSTRY 3634.--ELECTRIC HOUSEWARES AND FANS											
1972 Census.....	6,969	(NA)	80	1,937	3.03	.46	.67	(NA)	17,721	39	11.45
1971 ASM.....	6,435	6,359	80	1,918	2.81	.46	.68	.23	15,399	42	10.03
1970 ASM.....	6,036	5,869	81	1,911	2.60	.47	.70	.23	14,279	42	9.18
1969 ASM.....	5,819	5,970	81	1,938	2.48	.46	.67	.22	15,023	39	9.59
1968 ASM.....	5,643	4,710	80	1,943	2.39	.46	.67	.18	14,109	40	9.09
1967 Census.....	5,407	4,580	80	1,950	2.33	.47	.68	.18	13,241	41	8.54
1966 ASM.....	5,287	(NA)	82	1,925	2.29	.44	.66	(NA)	13,706	39	8.70
1965 ASM.....	5,117	(NA)	82	2,019	2.12	.47	.69	(NA)	13,909	37	8.40
1964 ASM.....	4,978	5,170	79	1,993	2.13	.46	.67	.20	12,475	40	7.91
1963 Census.....	4,852	4,840	80	1,918	2.13	.46	.69	.21	11,954	41	7.79
1962 ASM.....	4,874	5,190	80	1,868	2.16	.48	.71	.25	11,541	42	7.74
1961 ASM.....	4,771	(NA)	80	1,887	2.09	.46	.69	(NA)	11,324	42	7.54
1960 ASM.....	4,718	(NA)	80	1,901	2.07	.47	.71	(NA)	11,001	43	7.24
1959 ASM.....	4,602	(NA)	79	1,929	2.03	.44	.67	(NA)	11,084	42	7.29
1958 Census.....	4,420	(NA)	77	1,904	1.98	.44	.67	(NA)	10,327	43	7.03

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3635.--HOUSEHOLD VACUUM CLEANERS											
1972 Census.....	8,813	(NA)	75	1,940	4.17	.38	.59	(NA)	26,741	33	18.37
1971 ASM.....	8,216	10,948	75	1,945	3.87	.35	.56	.28	25,948	32	17.73
1970 ASM.....	7,485	10,784	77	1,907	3.54	.37	.58	.30	23,103	32	15.67
1969 ASM.....	6,990	8,210	75	1,890	3.43	.37	.58	.24	21,320	33	14.99
1968 ASM.....	6,913	7,580	77	1,901	3.23	.39	.59	.22	21,250	33	14.48
1967 Census.....	6,375	6,770	77	1,863	3.01	.40	.60	.21	19,650	32	13.78
1966 ASM.....	6,244	(NA)	76	1,919	2.87	.44	.64	(NA)	19,081	33	13.07
1965 ASM.....	6,343	(NA)	74	1,923	2.87	.39	.58	(NA)	20,429	31	14.37
1964 ASM.....	6,296	7,650	73	1,972	2.79	.35	.55	.24	21,086	30	14.72
1963 Census.....	6,252	6,890	75	1,938	2.76	.37	.58	.22	20,439	31	14.15
1962 ASM.....	6,022	6,020	72	1,944	2.65	.36	.57	.21	19,362	31	13.77
1961 ASM.....	5,871	(NA)	70	1,914	2.59	.38	.61	(NA)	15,909	37	11.84
1960 ASM.....	5,861	(NA)	71	1,946	2.57	.40	.62	(NA)	16,405	36	11.93
1959 ASM.....	5,720	(NA)	72	2,013	2.44	.43	.64	(NA)	15,367	37	10.62
1958 Census.....	5,603	(NA)	70	1,988	2.41	.39	.60	(NA)	15,794	35	11.29
INDUSTRY 3636.--SEWING MACHINES											
1972 Census.....	10,302	(NA)	83	1,955	4.83	.23	.60	(NA)	23,509	43	14.49
1971 ASM.....	8,879	13,879	78	1,911	4.19	.25	.61	.56	19,190	46	12.94
1970 ASM.....	8,794	12,143	78	1,939	4.07	.26	.66	.56	15,968	55	10.59
1969 ASM.....	8,540	10,810	79	2,020	3.90	.27	.64	.47	17,270	49	10.77
1968 ASM.....	7,617	10,520	77	2,022	3.55	.26	.60	.47	15,517	49	10.01
1967 Census.....	7,642	11,080	76	1,980	3.57	.25	.65	.57	14,600	52	9.66
1966 ASM.....	7,935	(NA)	76	2,339	3.21	.26	.66	(NA)	16,045	49	9.00
1965 ASM.....	7,290	(NA)	71	2,167	3.15	.25	.63	(NA)	13,120	56	8.48
1964 ASM.....	6,818	9,070	75	2,028	3.03	.26	.69	.57	9,749	70	6.44
1963 Census.....	6,796	8,910	76	2,077	2.99	.26	.70	.58	12,860	53	8.10
1962 ASM.....	6,581	9,510	67	2,235	2.87	.40	.77	.54	12,003	55	8.04
1961 ASM.....	5,940	(NA)	68	2,057	2.76	.37	.80	(NA)	9,044	66	6.51
1960 ASM.....	6,016	(NA)	69	2,208	2.61	.37	.84	(NA)	8,438	71	5.56
1959 ASM.....	5,478	(NA)	73	1,956	2.51	.38	.80	(NA)	7,394	74	5.20
1958 Census.....	5,029	(NA)	73	1,905	2.46	.41	.85	(NA)	6,453	78	4.65
INDUSTRY 3639.--HOUSEHOLD APPLIANCES, N.E.C.											
1972 Census.....	8,821	(NA)	77	1,953	4.00	.53	.71	(NA)	24,386	36	16.34
1971 ASM.....	8,365	10,068	76	1,946	3.78	.51	.70	.24	20,723	40	14.07
1970 ASM.....	7,873	9,544	77	1,975	3.40	.54	.75	.26	17,905	44	11.84
1969 ASM.....	7,504	9,600	76	1,981	3.16	.53	.72	.25	18,022	42	12.04
1968 ASM.....	7,252	8,900	76	2,029	3.12	.54	.72	.23	17,807	41	11.50
1967 Census.....	6,777	8,420	75	2,057	2.92	.55	.74	.24	16,229	42	10.56
1966 ASM.....	6,543	(NA)	76	2,050	2.82	.54	.73	(NA)	16,359	40	10.45
1965 ASM.....	6,554	(NA)	78	2,015	2.90	.53	.71	(NA)	17,337	38	11.09
1964 ASM.....	6,448	7,490	76	2,008	2.89	.53	.71	.21	16,949	38	11.14
1963 Census.....	6,215	7,110	75	2,014	2.72	.54	.72	.21	15,555	40	10.25
1962 ASM.....	6,040	6,710	74	1,997	2.70	.59	.78	.21	13,084	46	8.81
1961 ASM.....	6,000	(NA)	71	2,019	2.68	.59	.80	(NA)	11,537	52	8.10
1960 ASM.....	5,890	(NA)	72	1,988	2.53	.59	.80	(NA)	11,437	51	8.04
1959 ASM.....	5,676	(NA)	70	1,896	2.59	.59	.79	(NA)	11,259	50	8.51
1958 Census.....	5,448	(NA)	69	1,978	2.37	.56	.77	(NA)	11,125	49	8.14

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
1 3631-- HOUSEHOLD COOKING EQUIPMENT													
UNITED STATES. . . . .	82	49	22.9	202.0	18.1	36.2	138.7	404.3	524.5	924.7	25.4	20.4	254.2
NORTHEAST REGION. . . . .	17	8	2.0	17.4	1.7	3.3	12.3	34.1	42.5	78.0	1.1	2.7	29.8
MIDDLE ATLANTIC DIVISION. . . . .	14	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	28.1
NEW YORK. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY. . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION. . . . .	23	17	8.2	76.3	6.0	12.2	48.8	137.0	171.2	306.2	5.8	8.2	99.6
EAST NORTH CENTRAL DIVISION. . . . .	19	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS. . . . .	11	10	4.8	44.6	3.8	7.6	32.1	74.7	106.6	183.3	1.8	5.6	59.3
WISCONSIN. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	29	18	10.3	87.9	8.4	16.9	63.1	186.4	260.0	444.1	16.5	8.1	108.0
SOUTH ATLANTIC DIVISION. . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MARYLAND. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	17	14	8.8	74.9	7.2	14.3	53.8	173.9	230.0	402.1	(D)	7.9	105.4
KENTUCKY. . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE. . . . .	13	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	7	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	4	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	13	6	2.4	20.4	1.9	3.8	14.5	46.8	50.8	96.5	2.0	1.3	16.8
PACIFIC DIVISION. . . . .	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA. . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3632-- HOUSEHOLD REFRIGERATORS, FREEZERS													
UNITED STATES. . . . .	36	25	34.1	305.3	28.6	55.6	233.0	790.8	944.8	1 719.7	25.5	53.0	794.0
NORTHEAST REGION. . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MIDDLE ATLANTIC DIVISION. . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NEW YORK. . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION. . . . .	20	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	16	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	41.5	574.9
OHIO. . . . .	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA. . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MICHIGAN. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	6.6
WEST NORTH CENTRAL DIVISION. . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MINNESOTA. . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
IOWA. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION. . . . .	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ARKANSAS. . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3633-- HOUSEHOLD LAUNDRY EQUIPMENT													
UNITED STATES. . . . .	29	24	23.6	223.1	19.4	36.9	171.2	684.7	691.2	1 356.5	31.0	22.2	408.4
NORTHEAST REGION. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW YORK. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION. . . . .	21	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	14	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.0	241.8
OHIO. . . . .	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MICHIGAN. . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
IOWA. . . . .	5	5	FF	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3634-- ELECTRIC HOUSEWARES AND FANS													
UNITED STATES. . . . .	299	167	51.3	357.5	41.0	79.4	240.9	909.1	735.6	1 613.3	32.6	44.6	590.4
NORTHEAST REGION . . . . .	96	52	13.2	98.3	10.5	20.7	66.5	251.7	187.8	448.5	8.1	12.7	185.1
NEW ENGLAND DIVISION . . . . .	27	19	5.0	35.9	3.9	7.3	23.1	85.4	68.4	165.7	2.0	4.5	79.2
MAINE . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	13	8	.9	5.8	.7	1.3	3.8	13.3	11.9	25.2	.5	.5	5.0
CONNECTICUT. . . . .	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION . . . . .	69	33	8.2	62.4	6.7	13.4	43.4	166.3	119.4	282.8	6.1	8.2	106.0
NEW YORK . . . . .	41	21	3.7	27.7	3.0	6.1	18.6	64.6	51.8	118.0	2.0	5.2	62.7
NEW JERSEY . . . . . E2	17	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.0
PENNSYLVANIA . . . . .	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	40.4
NORTH CENTRAL REGION . . . . .	100	56	16.9	136.8	12.0	23.2	79.7	290.0	236.9	503.8	11.7	15.8	197.3
EAST NORTH CENTRAL DIVISION. . . . .	78	43	13.2	116.4	8.7	16.4	63.8	238.5	178.2	389.6	8.8	11.3	151.9
OHIO . . . . .	14	9	2.6	23.1	1.6	3.3	12.3	61.6	41.0	102.4	(D)	2.2	45.3
INDIANA . . . . .	6	5	.7	4.2	.6	1.1	2.9	10.0	10.1	20.0	(D)	(NA)	(NA)
ILLINOIS . . . . .	32	14	5.3	48.3	3.6	6.6	27.1	88.7	53.4	120.3	1.6	7.0	75.4
MICHIGAN . . . . . E2	14	5	.4	2.7	.3	.5	1.6	5.6	6.7	12.4	.4	(NA)	(NA)
WISCONSIN. . . . .	12	10	4.2	38.2	2.6	4.8	20.0	72.6	67.0	134.5	3.6	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	22	13	3.7	20.4	3.3	6.8	15.8	51.4	58.7	114.2	2.9	4.5	45.5
IOWA . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSOURI . . . . .	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION . . . . .	72	52	19.0	104.6	16.7	32.4	82.5	316.9	289.7	589.7	8.8	14.4	163.4
SOUTH ATLANTIC DIVISION. . . . .	28	18	7.7	44.4	6.7	12.8	34.1	136.7	131.4	256.9	4.1	7.4	90.4
DELAWARE . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MARYLAND . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH CAROLINA . . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA. . . . . E6	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.1
EAST SOUTH CENTRAL DIVISION. . . . .	27	25	9.0	47.8	8.0	15.7	38.9	134.2	116.8	249.6	3.2	FF	(D)
KENTUCKY . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	30.1
ALABAMA. . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. . . . .	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	17	9	2.3	12.4	2.0	3.9	9.5	46.1	41.6	83.1	1.5	EE	(D)
ARKANSAS . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
LOUISIANA. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TEXAS. . . . .	9	3	.6	3.1	.5	.9	2.2	6.7	12.3	19.0	.4	BB	(D)
WEST REGION. . . . .	31	7	2.2	17.8	1.7	3.1	12.2	50.6	21.1	71.3	4.0	1.8	44.5
MOUNTAIN DIVISION. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
COLORADO . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NEW MEXICO . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	29	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OREGON . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	22	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3635-- HOUSEHOLD VACUUM CLEANERS													
UNITED STATES. . . . .	36	24	11.2	98.7	8.4	16.3	68.0	299.5	176.2	467.7	9.7	9.2	181.4
NORTHEAST REGION . . . . .	8	6	2.1	19.4	1.6	3.2	13.3	65.7	31.7	97.1	1.9	EE	(D)
NEW ENGLAND DIVISION . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.7
NEW JERSEY . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	19	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	18	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	12	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	93.2
ILLINOIS . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MICHIGAN . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
SOUTH ATLANTIC DIVISION. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
VIRGINIA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3636-- SEWING MACHINES													
UNITED STATES. . . . .	75	18	5.3	54.6	4.4	8.6	41.6	124.6	37.0	159.6	9.3	6.4	94.1
NORTHEAST REGION . . . . .	60	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW ENGLAND DIVISION . . . . .	13	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS. . . . .	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
CONNECTICUT. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MIDDLE ATLANTIC DIVISION . . . . .	47	12	3.2	34.2	2.5	4.9	23.9	54.2	20.6	73.6	(D)	4.4	52.6
NEW YORK . . . . . E1	38	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY . . . . .	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

(See appendix. Explanation of Terms)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent	E3--30 to 39 percent	E5--50 to 59 percent	E7--70 to 79 percent	E9--90 to 99 percent
E2--20 to 29 percent	E4--40 to 49 percent	E6--60 to 69 percent	E8--80 to 89 percent	E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees    RR--250 to 499 employees    CC--500 to 999 employees    EE--1,000 to 2,499 employees    FF--2,500 employees and over

(See appendix, Explanation of Terms)

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Household cooking equipment (SIC 3631)	Household refrigerators and freezers (SIC 3632)	Household laundry equipment (SIC 3633)	Electric housewares and fans (SIC 3634)	Household vacuum cleaners (SIC 3635)	Sewing machines (SIC 3636)	Household appliances, n.e.c. (SIC 3639)
COST OF MATERIALS, ETC., TOTAL . . . . .	524.5	944.8	691.2	735.6	176.2	37.0	363.1
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .	458.6	820.8	665.1	649.2	167.6	25.1	346.9
COST OF REALES . . . . .	54.7	111.1	13.5	69.1	2.6	10.3	9.9
FUELS CONSUMED . . . . .	4.1	4.9	4.6	3.8	1.0	.6	2.7
PURCHASED ELECTRIC ENERGY . . . . .	4.4	6.8	5.7	8.4	1.9	1.0	2.5
CONTRACT WORK . . . . .	2.7	1.2	2.3	5.1	3.1	.1	1.1
VALUE OF SHIPMENTS, INCLUDING REALES . . . . .	924.7	1 719.7	1 356.5	1 613.3	467.7	159.6	681.9
VALUE OF REALES . . . . .	72.3	129.0	17.2	111.7	3.6	17.5	12.8
VALUE ADDED BY MANUFACTURE . . . . .	404.3	790.8	684.7	909.1	299.5	124.6	341.4
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . .	156.4	267.6	151.3	256.2	67.7	52.7	74.9
FINISHED PRODUCTS . . . . .	80.2	167.0	77.9	109.1	35.3	18.8	24.5
WORK IN PROCESS . . . . .	22.3	31.9	30.5	67.9	21.3	28.0	15.7
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	53.8	68.8	43.0	79.2	11.1	6.0	34.6
END OF YEAR, TOTAL . . . . .	166.8	280.0	169.3	314.1	74.3	55.2	103.6
FINISHED PRODUCTS . . . . .	81.0	186.4	94.4	129.8	37.7	14.9	40.6
WORK IN PROCESS . . . . .	25.7	28.3	33.4	78.8	26.8	33.7	22.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	60.1	65.2	41.4	105.6	9.7	6.5	40.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .	25.6	25.6	31.2	36.1	9.8	11.5	19.3
NEW PLANT AND EQUIPMENT, TOTAL . . . . .	25.4	25.5	31.0	32.6	9.7	9.3	18.3
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .	7.5	6.0	5.9	7.2	1.5	.3	5.4
NEW MACHINERY AND EQUIPMENT . . . . .	17.8	19.5	25.1	25.4	8.1	9.0	12.9
USED PLANT AND EQUIPMENT . . . . .	.3	.1	.2	3.4	.1	2.2	1.0

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3631-- HOUSEHOLD COOKING EQUIPMENT											
ESTABLISHMENTS, TOTAL . . . . .	82	22.9	202.0	18.1	36.2	138.7	404.3	524.5	924.7	25.4	166.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	19	(Z)	.2	(Z)	(Z)	.2	.6	.7	1.2	(Z)	.2
5 TO 9 EMPLOYEES . . . . .	6	(Z)	.5	(Z)	.1	.2	1.0	1.1	2.2	(Z)	.3
10 TO 19 EMPLOYEES . . . . .	8	.1	.8	.1	.2	.5	.8	1.7	3.1	.3	.6
20 TO 49 EMPLOYEES . . . . .	8	.2	1.7	.2	.4	1.1	3.9	4.8	8.4	.1	1.9
50 TO 99 EMPLOYEES . . . . .	5	.3	2.4	.3	.6	1.5	8.3	18.2	26.1	.5	4.9
100 TO 249 EMPLOYEES . . . . .	10	1.6	12.5	1.3	2.7	8.8	30.5	35.9	64.3	1.4	12.6
250 TO 499 EMPLOYEES . . . . .	10	3.4	24.9	2.8	5.5	17.3	40.0	72.5	111.7	2.9	24.7
500 TO 999 EMPLOYEES . . . . .	10	6.8	55.6	5.6	10.8	41.1	129.3	150.1	280.1	4.1	52.5
1,000 TO 2,499 EMPLOYEES . . . . .	5	10.3	103.3	7.8	16.1	67.9	190.0	239.5	427.7	16.1	69.2
2,500 EMPLOYEES OR MORE . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	12	(Z)	.4	(Z)	.1	.2	.7	.9	1.7	(Z)	.4
3632-- HOUSEHOLD REFRIGERATORS, FREEZERS											
ESTABLISHMENTS, TOTAL . . . . .	36	34.1	305.3	28.6	55.6	233.0	790.8	944.8	1 719.7	25.5	280.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	9	(Z)	.2	(Z)	(Z)	.2	.8	.4	1.1	(Z)	.2
5 TO 9 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	5	.2	1.3	.1	.2	.9	2.5	4.1	6.7	.1	1.1
20 TO 49 EMPLOYEES . . . . .	5	.2	1.7	.2	.3	1.0	4.2	4.5	8.4	.1	1.2
50 TO 99 EMPLOYEES . . . . .	3	.2	1.7	.2	.3	1.0	4.2	4.5	8.4	.1	1.2
100 TO 249 EMPLOYEES . . . . .	3	1.0	7.3	.8	1.6	5.5	13.1	31.8	45.6	.7	9.5
250 TO 499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	8	13.7	119.5	11.2	22.4	88.4	269.9	396.8	658.1	13.0	100.4
1,000 TO 2,499 EMPLOYEES . . . . .	4	19.1	175.3	16.2	31.1	137.1	500.5	507.1	999.8	11.6	167.6
2,500 EMPLOYEES OR MORE . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3633-- HOUSEHOLD LAUNDRY EQUIPMENT											
ESTABLISHMENTS, TOTAL . . . . .	29	23.6	223.1	19.4	36.9	171.2	684.7	691.2	1 356.5	31.0	169.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	3	(Z)	.2	(Z)	(Z)	.1	.9	.9	1.6	.7	.3
5 TO 9 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	4	.2	1.5	.1	.2	.8	3.4	3.9	7.4	(0)	1.3
20 TO 49 EMPLOYEES . . . . .	7	1.2	8.7	1.0	1.9	7.1	29.1	22.7	51.7	1.0	7.2
50 TO 99 EMPLOYEES . . . . .	2	2.3	17.1	1.9	3.7	13.4	39.2	52.9	90.9	7.5	11.4
100 TO 249 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES . . . . .	6	20.1	195.6	16.4	31.1	149.8	612.2	610.8	1 204.8	21.8	149.1
500 TO 999 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3634-- ELECTRIC HOUSEWARES AND FANS											
ESTABLISHMENTS, TOTAL . . . . .	299	51.3	357.5	41.0	79.4	240.9	909.1	735.6	1 613.3	32.6	314.1
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES . . . . . E8	89	.1	1.0	.1	.2	.6	4.9	3.3	8.0	.2	1.8
5 TO 9 EMPLOYEES . . . . . E9	24	.1	1.0	.1	.2	.6	2.3	1.9	4.2	.1	.9
10 TO 19 EMPLOYEES . . . . . E3	19	.3	1.7	.2	.4	1.2	3.4	2.0	5.5	.4	1.0
20 TO 49 EMPLOYEES . . . . . E1	37	1.2	7.8	1.0	1.7	4.9	18.2	19.7	37.8	1.1	7.2
50 TO 99 EMPLOYEES . . . . .	21	1.6	10.8	1.3	2.6	7.1	23.5	22.3	46.0	1.3	9.3
100 TO 249 EMPLOYEES . . . . .	44	7.2	42.3	6.1	11.5	29.6	106.7	92.0	197.3	6.7	45.3
250 TO 499 EMPLOYEES . . . . .	35	12.0	68.7	9.9	19.5	49.1	206.6	192.1	389.6	4.8	82.3
500 TO 999 EMPLOYEES . . . . .	23	15.3	99.7	12.8	25.4	72.4	236.0	213.2	451.9	8.2	75.0
1,000 TO 2,499 EMPLOYEES . . . . .	5	13.4	124.5	9.5	17.8	75.3	307.5	189.1	473.0	9.7	91.3
2,500 EMPLOYEES OR MORE . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	92	.3	1.8	.3	.5	1.2	5.4	4.6	10.0	.2	2.2
3635-- HOUSEHOLD VACUUM CLEANERS											
ESTABLISHMENTS, TOTAL . . . . .	36	11.2	98.7	8.4	16.3	68.0	299.5	176.2	467.7	9.7	74.3
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES . . . . . E5	7	(Z)	.2	(Z)	(Z)	.1	.4	.3	.7	.1	.1
5 TO 9 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	4	.1	.3	(Z)	.1	.2	.8	.6	1.3	(0)	.1
20 TO 49 EMPLOYEES . . . . . E1	10	.3	2.1	.2	.4	1.2	4.7	4.1	8.7	.1	1.7
50 TO 99 EMPLOYEES . . . . .	3	.8	6.6	.4	.9	4.2	31.8	19.1	53.4	.5	5.8
100 TO 249 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES . . . . .	3	1.3	13.0	1.0	2.2	9.6	49.3	31.9	80.8	.5	5.2
500 TO 999 EMPLOYEES . . . . .	3	8.9	76.4	6.6	12.5	52.7	212.4	120.2	322.9	8.4	61.3
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	4	(Z)	.1	(Z)	(Z)	(Z)	.2	.1	.4	(Z)	.1
3636-- SEWING MACHINES											
ESTABLISHMENTS, TOTAL . . . . .	75	5.3	54.6	4.4	8.6	41.6	124.6	37.0	159.6	9.3	55.2
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES . . . . . E7	33	.1	.6	.1	.1	.4	1.3	.5	1.8	.1	.4
5 TO 9 EMPLOYEES . . . . . E7	12	.1	.6	.1	.1	.5	1.0	.4	1.4	.1	.3
10 TO 19 EMPLOYEES . . . . . E2	12	.2	1.5	.1	.2	1.0	3.4	1.2	4.5	.1	.8
20 TO 49 EMPLOYEES . . . . . E1	7	.2	1.9	.1	.3	1.3	3.5	1.8	5.3	.1	.6
50 TO 99 EMPLOYEES . . . . .	6	.6	5.5	.5	1.0	3.7	8.6	9.1	19.8	.3	6.7
100 TO 249 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES . . . . .	1	4.2	44.5	3.5	6.8	34.7	106.8	23.8	126.8	8.6	46.4
500 TO 999 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	34	.1	.8	.1	.1	.6	1.8	.6	2.4	.1	.7
3639-- HOUSEHOLD APPLIANCES, NEC											
ESTABLISHMENTS, TOTAL . . . . .	85	14.0	123.5	10.7	20.9	83.4	341.4	363.1	681.9	18.3	103.6
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES . . . . . E4	20	(Z)	.3	(Z)	.1	.2	1.4	.7	2.1	(Z)	.2
5 TO 9 EMPLOYEES . . . . . E5	8	.1	.5	(Z)	.1	.2	1.7	.8	2.5	(Z)	.3
10 TO 19 EMPLOYEES . . . . . E1	9	.1	1.2	.1	.2	.6	2.4	3.2	5.5	.1	1.2
20 TO 49 EMPLOYEES . . . . . E1	9	.3	2.0	.2	.4	1.3	4.3	5.6	9.9	.2	1.7
50 TO 99 EMPLOYEES . . . . . E1	13	.9	7.4	.7	1.3	4.4	17.6	19.0	35.4	4.2	6.7
100 TO 249 EMPLOYEES . . . . .	10	1.6	11.7	1.2	2.3	7.6	35.7	49.2	80.7	.8	15.6
250 TO 499 EMPLOYEES . . . . .	7	2.1	15.8	1.7	3.1	11.0	41.3	58.6	97.2	2.1	15.7
500 TO 999 EMPLOYEES . . . . .	5	3.1	29.1	2.4	4.7	19.2	70.1	86.5	149.5	4.1	23.0
1,000 TO 2,499 EMPLOYEES . . . . .	4	5.7	55.4	4.4	8.7	38.9	167.0	139.4	299.2	6.7	39.1
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	14	.1	.5	(Z)	.1	.3	1.0	1.0	2.0	(Z)	.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; a.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3631	HOUSEHOLD COOKING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	82	22.9	202.0	18.1	36.2	138.7	404.3	524.5	924.7	25.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	70	18.6	169.3	14.5	29.0	115.2	333.5	443.6	775.0	21.4
36311	ELECTRIC HOUSEHOLD RANGES, OVENS, AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	10.5	103.9	7.9	16.0	67.3	192.2	216.6	404.9	11.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36312	HOUSEHOLD OVENS, RANGES, AND PARTS, EXC. ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	42	12.3	97.1	10.1	20.1	70.8	210.0	305.4	515.4	14.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	28	5.6	45.9	4.5	8.6	33.5	109.3	143.3	253.2	3.1
3632	HOUSEHOLD REFRIGERATORS AND FREEZERS										
	ENTIRE INDUSTRY . . . . .	36	34.1	305.3	28.6	55.6	233.0	790.8	944.8	1 719.7	25.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	31	17.7	156.7	14.7	29.3	117.9	446.3	502.6	935.2	15.8
36321	HOUSEHOLD REFRIGERATORS AND REFRIGERATOR-FREEZERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	18	30.7	276.2	25.8	50.7	212.7	720.4	840.5	1 544.6	20.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36322	HOME AND FARM FREEZERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3633	HOUSEHOLD LAUNDRY EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	29	23.6	223.1	19.4	36.9	171.2	684.7	691.2	1 356.5	31.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	22	16.9	159.5	14.1	26.8	124.7	550.0	531.8	1 064.5	25.2
36331	HOME MECHANICAL WASHERS, DRYERS, AND COMBINATION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	13	21.9	210.6	18.0	34.1	161.5	660.4	665.7	1 306.9	22.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	9	15.8	151.9	13.1	24.9	118.3	533.7	513.2	1 029.7	17.6
36333	OTHER HOUSEHOLD LAUNDRY EQUIPMENT AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	11	1.6	12.0	1.3	2.7	9.3	23.1	24.1	46.9	8.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	7	.9	6.1	.8	1.5	5.1	13.5	12.1	25.6	7.4
3634	ELECTRIC HOUSEWARES AND FANS										
	ENTIRE INDUSTRY . . . . .	299	51.3	357.5	41.0	79.4	240.9	908.1	735.6	1 613.3	32.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	274	40.2	267.8	33.4	64.5	190.4	709.0	567.0	1 253.6	23.3
36341	ELECTRIC FANS, EXCEPT INDUSTRIAL TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	19	5.4	39.0	4.2	8.2	24.4	93.4	85.6	181.1	4.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	13	1.9	11.1	1.7	3.3	8.5	22.8	36.0	61.4	1.4
36342	ELECTRIC RAZORS AND DRY SHAVERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36343	OTHER SMALL HOUSEHOLD ELECTRIC APPLIANCES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	115	38.4	267.4	31.1	60.5	185.0	695.0	564.3	1 221.4	24.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	86	25.6	163.4	21.7	42.2	120.3	474.9	394.3	862.2	16.9
36344	PARTS, ATTACHMENTS FOR SMALL ELECTRIC HOUSEWARES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	18	3.3	23.2	2.5	5.0	14.0	38.9	31.9	71.4	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3635	HOUSEHOLD VACUUM CLEANERS										
	ENTIRE INDUSTRY . . . . .	36	11.2	98.7	8.4	16.3	68.0	299.5	176.2	467.7	9.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	31	8.8	79.2	6.5	12.6	54.9	255.5	142.6	390.6	7.7
3636	SEWING MACHINES										
	ENTIRE INDUSTRY . . . . .	75	5.3	54.6	4.4	8.6	41.6	124.6	37.0	159.6	9.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	74	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3639	HOUSEHOLD APPLIANCES, NEC										
	ENTIRE INDUSTRY . . . . .	85	14.0	123.5	10.7	20.9	83.4	341.4	363.1	681.9	18.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	72	12.9	115.0	9.9	19.5	78.5	318.4	341.9	639.9	17.6
36391	HOUSEHOLD WATER HEATERS, ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	9	1.7	12.2	1.3	2.6	8.5	27.1	37.3	63.6	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36392	HOUSEHOLD WATER HEATERS, EXCEPT ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	18	5.8	54.5	4.4	8.7	36.5	118.9	148.1	261.5	7.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	5	.5	4.1	.4	.7	2.6	8.0	15.2	23.2	.4
36394	DISHWASHING MACHINES AND FOOD WASTE DISPOSERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	5.6	49.6	4.3	8.3	34.1	176.3	161.3	322.4	8.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	5.3	47.2	4.1	7.8	32.7	166.6	149.7	303.0	6.3
36399	OTHER HOUSEHOLD APPLIANCES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	5	.5	3.9	.3	.6	2.2	11.6	9.6	20.1	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3631	Household cooking equipment.....1972..	924.7	763.8	78.3	82.6	91	1,027.0	763.8	263.2	74
	.....1967..	551.9	482.4	39.2	30.3	92	632.1	482.4	149.7	76
3632	Household refrigerators and freezers.....1972..	1,719.7	(D)	(D)	134.7	75-80	1,419.4	(D)	(D)	80-85
	.....1967..	1,785.4	984.4	697.8	103.2	59	987.6	984.4	3.2	99
3633	Household laundry equipment.....1972..	1,356.5	1,168.8	166.1	21.6	88	1,289.9	1,168.8	121.1	91
	.....1967..	982.5	838.9	121.5	22.1	87	931.7	838.9	92.8	90
3634	Electric housewares and fans.....1972..	1,613.3	1,318.4	173.6	121.3	88	1,448.0	1,318.4	129.6	91
	.....1967..	1,112.0	918.4	100.1	93.5	90	1,073.2	918.4	154.8	86
3635	Household vacuum cleaners.....1972..	467.7	371.5	90.9	5.3	80	439.2	371.5	67.7	85
	.....1967..	293.2	212.9	71.2	9.1	75	254.5	212.9	41.6	84
3636	Sewing machines.....1972..	159.6	141.7	(D)	(D)	95-100	152.1	141.7	10.4	93
	.....1967..	123.6	112.7	(D)	(D)	95-99	116.8	112.7	4.1	96
3639	Household appliances, n.e.c.....1972..	681.9	619.8	46.1	16.0	93	816.5	619.8	196.7	76
	.....1967..	479.9	403.7	61.4	14.8	87	510.2	403.7	106.5	79

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Household cooking equipment (SIC 3631)	Household refrigerators and freezers (SIC 3632)	Household laundry equipment (SIC 3633)	Electric housewares and fans (SIC 3634)	Household vacuum cleaners (SIC 3635)	Sewing machines (SIC 3636)	Household appliances, n.e.c. (SIC 3639)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	924.7	1,719.7	1,356.5	1,613.3	467.7	159.6	681.9	(X)
3631	Household cooking equipment....	1,027.0	764.1	(20-50)	(50-100)	4.8	-	-	-	149.5
36311	Electric household ranges, ovens, and parts.....	582.8	362.0	(20-50)	(50-100)	(2-5)	-	-	-	107.9
36312	Household ovens, ranges, and parts, except electric.....	439.3	397.2	-	(under 2)	(under 2)	-	-	-	41.5
36310	Household cooking equipment, n.s.k.....	4.9	4.9	-	-	-	-	-	-	-
3632	Household refrigerators and freezers.....	1,419.4	(under 2)	(D)	-	(under 2)	-	-	-	(over 2)
36321	Household refrigerators and refrigerator-freezer.....	1,207.8	(under 2)	(D)	-	(under 2)	-	-	-	(over 2)
36322	Home and farm freezers.....	199.8	-	(D)	-	(under 2)	-	-	-	(over 2)
36320	Household refrigerators and refrigerator-freezers, n.s.k.....	11.8	-	11.8	-	-	-	-	-	-
3633	Household laundry equipment....	1,289.9	(under 2)	-	1,168.8	-	(over 2)	-	-	107.2
36331	Home mechanical washers, dryers, and combinations....	1,138.5	(under 2)	-	1,047.3	-	(over 2)	-	-	77.6
36333	Other household laundry equip- ment and parts.....	148.7	-	-	118.9	-	(under 2)	-	-	29.6
36330	Household laundry equipment, n.s.k.....	2.7	-	-	2.7	-	-	-	-	-

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Household cooking equipment (SIC 3631)	Household refrigerators and freezers (SIC 3632)	Household laundry equipment (SIC 3633)	Electric housewares and fans (SIC 3634)	Household vacuum cleaners (SIC 3635)	Sewing machines (SIC 3636)	Household appliances, n.e.c. (SIC 3639)	Other industries
	Shipments and miscellaneous receipts--Continued									
3634	Electric housewares and fans....	1,448.0	(over 2)	(under 2)	(under 2)	1,318.4	(over 2)	-	-	117.0
36341	Electric fans, except industrial type.....	127.7	(over 2)	-	-	114.9	-	-	-	10.8
36342	Electric razors and dry shavers.....	64.3	-	-	-	64.3	-	-	-	-
36343	Other small household electric appliances.....	1,121.6	-	(under 2)	(under 2)	1,018.4	(over 2)	-	-	93.2
36344	Parts and attachments for small electric housewares....	79.0	(under 2)	-	(under 2)	75.8	-	-	-	2.6
3640	Electric housewares and fans, n.s.k.....	55.4	(under 2)	-	-	45.0	-	-	-	10.3
36350	Household vacuum cleaners, parts, and attachments.....	439.2	-	(over 2)	-	18.2	371.5	-	-	(over 2)
36360	Sewing machines and parts, except separate cabinets.....	152.1	-	-	-	-	-	141.7	-	10.4
3639	Household appliances, n.e.c....	816.5	23.2	(over 2)	(20-50)	(over 2)	31.5	-	619.8	73.6
36391	Household water heaters, electric.....	119.9	-	-	-	-	-	-	115.6	4.3
36392	Household water heaters, except electric.....	179.5	-	-	-	-	-	-	164.0	15.5
36394	Dishwashing machines and food waste disposers.....	417.9	(10-20)	(over 2)	(20-50)	(over 2)	-	-	296.2	35.3
36399	Other household appliances and parts.....	86.4	(over 2)	-	-	(over 2)	31.5	-	31.5	18.2
36390	Household appliances, n.e.c., n.s.k.....	12.8	-	-	-	-	-	-	12.5	.3
	Other product shipments by 4-digit product group:									
2542	Metal partitions and fixtures.	(X)	-	-	-	(5-10)	-	-	-	(X)
2643	Bags, except textile bags....	(X)	-	-	-	-	(over 2)	-	-	(X)
2842	Polishes and sanitation goods.	(X)	-	-	-	-	(5-10)	-	(under 2)	(X)
3079	Miscellaneous plastics products	(X)	-	-	-	(2-5)	(over 2)	-	-	(X)
3261	Vitreous plumbing fixtures....	(X)	-	-	-	-	-	-	(over 2)	(X)
3361	Aluminum foundries.....	(X)	-	-	-	1.9	(over 2)	-	-	(X)
3412	Metal barrels, drums, pails...	(X)	-	-	-	-	-	-	(over 2)	(X)
3433	Heating equipment, except electric.....	(X)	(5-10)	-	-	(under 2)	-	-	9.6	(X)
3443	Fabricated platework (boiler shops).....	(X)	-	-	-	(under 2)	-	-	(5-10)	(X)
3444	Sheet metal work.....	(X)	(5-10)	-	-	(under 2)	-	-	-	(X)
3469	Metal stampings, n.e.c.....	(X)	13.3	-	(2-5)	(20-50)	-	(under 2)	-	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	-	-	(over 2)	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	-	-	9.8	(under 2)	-	-	(X)
3551	Food products machinery.....	(X)	-	-	-	3.3	-	-	-	(X)
3564	Blowers and fans.....	(X)	-	-	-	(2-5)	-	-	-	(X)
3585	Refrigeration and heating equipment.....	(X)	(5-10)	(D)	-	10.6	(under 2)	-	(under 2)	(X)
3589	Service industry machinery, n.e.c.....	(X)	(2-5)	-	-	(under 2)	(under 2)	-	(5-10)	(X)
3621	Motors and generators.....	(X)	-	-	-	(2-5)	(over 2)	-	(under 2)	(X)
3662	Radio and TV communication equipment.....	(X)	-	-	-	(10-20)	-	-	-	(X)
3699	Electrical equipment and supplies, n.e.c.....	(X)	-	-	(under 2)	(5-10)	-	-	(under 2)	(X)
3713	Truck and bus bodies.....	(X)	-	-	-	(over 2)	-	-	-	(X)
3873	Watches, clocks, watchcases...	(X)	-	-	-	(over 2)	-	-	-	(X)
3944	Games, toys, and children's vehicles.....	(X)	(2-5)	-	-	-	-	-	-	(X)
3999	Manufacturing industries, n.e.c.....	(X)	-	-	-	9.3	(under 1)	-	-	(X)
	Miscellaneous receipts, total...	(X)	82.6	134.7	21.6	121.3	5.3	17.7	16.0	(X)
9300000	Contract work.....	(X)	.7	(under 2)	-	1.6	-	(under 2)	(under 2)	(X)
9998013	Sales of scrap and refuse....	(X)	.8	2.4	3.2	2.8	1.1	-	1.1	(X)
9998031	Receipts for installation....	(X)	(under 2)	-	-	-	-	-	(Z)	(X)
9998041	Receipts for research and developmental work.....	(X)	-	-	-	(under 2)	-	-	-	(X)
9998061	Receipts for repair work.....	(X)	5.1	(under 2)	(under 2)	4.2	.4	(under 2)	1.9	(X)
9998098	Other miscellaneous receipts..	(X)	3.7	3.3	(under 2)	.3	.2	.1	(under 2)	(X)
9998900	Resales.....	(X)	72.3	129.0	17.2	111.7	3.6	17.5	12.8	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued	
3631	2514 Metal household furniture.....	7.8	3634	3469 Metal stampings, n.e.c.....	33.1
	3229 Pressed and blown glass, n.e.c.....	(10-20)		3494 Valves and pipe fittings.....	(2-5)
	3433 Heating equipment, except electric.....	6.1		3546 Power-driven handtools.....	3.5
	3564 Blowers and fans.....	(5-10)		3563 Air and gas compressors.....	(2-5)
	3567 Industrial furnaces and ovens.....	(10-20)		3567 Industrial furnaces and ovens.....	(10-20)
	3585 Refrigeration and heating equipment.....	92.1		3585 Refrigeration and heating equipment.....	(10-20)
3632	3433 Heating equipment, except electric.....	(over 2)		3621 Motors and generators.....	(5-10)
	3585 Refrigeration and heating equipment.....	(over 2)		3643 Current-carrying wiring devices.....	(2-5)
3633	3582 Commercial laundry equipment.....	(2-5)		3822 Environmental controls.....	(2-5)
	3585 Refrigeration and heating equipment.....	(50-100)		3842 Surgical appliances and supplies.....	(2-5)
	3714 Motor vehicle parts and accessories.....	(5-10)	3635	3662 Radio and TV communication equipment.....	(2-5)
3634	2512 Upholstered household furniture.....	(2-5)		3714 Motor vehicle parts and accessories.....	(2-5)
	2514 Metal household furniture.....	(2-5)	3636	3551 Food products machinery.....	(2-5)
	3421 Cutlery.....	(10-20)		3621 Motors and generators.....	(2-5)
	3433 Heating equipment, except electric.....	(2-5)	3639	3567 Industrial furnaces and ovens.....	(2-5)
	3444 Sheet metal work.....	(2-5)		3585 Refrigeration and heating equipment.....	(50-100)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3631- --	HOUSEHOLD COOKING EQUIPMENT, TOTAL.....		(X)	1,027.0	(X)	632.1
	Electric Household Ranges and Ovens and Surface Cooking Unit Equipment and Parts, (Except Small Appliances):					
36311 00	As reported in the census of manufactures.....		(X)	582.8	(X)	340.8
	As reported in Current Industrial Reports Series MA-36F.....		(X)	548.2	( <sup>1</sup> )	( <sup>1</sup> )
	Electric ranges over 1-1/4 kilowatts, excluding range-refrigerator combinations:					
	Freestanding ranges:					
36311 11	Under 23-inch width, all types, including apartment house type.....	1,000 units....	140.1	13.3	169.3	16.8
	23-inch up to and including 32-inch width:					
36311 21	Low oven.....	...do.....	1,730.4	245.5	684.4	91.7
36311 24	High oven.....	...do.....	49.4	8.1	73.4	11.8
36311 26	High-low oven.....	...do.....	191.4	52.8	156.3	29.0
	33-inch width and over:					
36311 32	Low oven and/or slide-in.....	...do.....	210.0	36.6	254.4	37.9
36311 34	High oven.....	...do.....	}	(2)	35.8	6.3
36311 36	High-low oven.....	...do.....				
	Other than freestanding:					
	Built-in ranges:					
	Built-in ovens:					
36311 53	Single oven.....	...do.....	261.4	29.1	273.5	28.2
36311 55	Two ovens.....	...do.....	118.0	24.2	90.8	20.9
36311 61	Surface cooking tops.....	...do.....	396.2	26.5	282.0	14.7
36311 65	Drop-in ranges.....	...do.....	510.8	65.0	253.4	32.5
36311 71	Household electronic stoves and ovens.....	...do.....	84.9	24.8	(X)	3.4
36311 79	Other electric ranges not listed above.....	...do.....	}	<sup>2</sup> 22.3	(X)	1.6
36311 81	Parts and accessories for household electric ranges and ovens, such as burners, rotisseries, oven racks, broiler pans, etc. (sold separately).....	...do.....			(X)	45.2
	Electric household ranges and ovens and surface unit equipment, n.s.k.....	...do.....			(X)	.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3631- --	HOUSEHOLD COOKING EQUIPMENT--Continued					
36312 --	Household Ovens and Ranges, Equipment, and Parts, Except Electric.		(X)	439.3	(X)	289.1
36312 10	Domestic cooking appliances, except electric:					
	As reported in the census of manufactures.....		(X)	352.1	(X)	254.6
	As reported in Current Industrial Reports Series MA-34N.....		(X)	331.1	(X)	231.6
	Gas cooking stoves and ranges:					
	Standard type, freestanding:					
36312 11	Over 32" cooking top and oven.....	1,000 units...	297.2	49.4	501.9	52.2
36312 13	Over 24" to 32" cooking top and oven.....	...do.....	1,353.6	184.5	904.4	99.9
36312 15	Apartment ranges (24" cooking top and under).....	...do.....	277.4	21.6	257.4	17.8
36312 17	Standard type, for built-in installation (built-in or stack-on oven-broiler unit).....	...do.....	176.3	22.3	193.9	21.3
36312 19	Surface cooking tops, one or more burners quantity in number of top units).....	...do.....	251.4	9.2	167.4	6.9
	Nonstandard types:					
36312 21	Wall hung.....	...do.....	26.4	3.2	36.5	7.3
36312 23	Slide-in or drop-in (including as one unit or drop-in cooking surface with a slide-in oven).....	...do.....	374.4	38.9	177.1	15.9
36312 24	Gas hotplates.....	...do.....	80.6	.7	87.6	.8
	Bungalow ranges:					
36312 25	Gas and coal.....	...do.....	5.7	1.0	13.3	1.9
36312 27	All other.....	...do.....				
36312 35	Ranges.....	...do.....				
36312 37	Cookstoves.....	...do.....	1.3	.1	(D)	(D)
	Combination ranges, including ranges equipped with conversion burners:					
36312 45	Gas and oil.....	...do.....	-	-	(D)	(D)
36312 47	Gas and coal.....	...do.....				
36312 49	All other, including ranges equipped with conversion burners.....	...do.....				
36312 53	Kerosene, gasoline, fuel oil, and miscellaneous:					
36312 55	Kerosene ranges.....	...do.....	(D)	(D)	628.2	7.0
36312 59	Kerosene cookstoves.....	...do.....				
	Miscellaneous cooking appliances.....	...do.....				
36312 12	Barbecuers, grills, and braziers, for outdoor cooking:					
36312 32	Gas.....	1,000 units...	321.9	20.6	(NA)	4.8
36312 98	Other than gas (charcoal, etc.).....	...dol.....	3,112.7	42.7	3,718.8	24.7
36312 00	Other household cooking equipment, except electric, and parts for cooking equipment, except electric, sold separately.....		(X)	22.0	(X)	3.2
36312 00	Domestic cooking appliances, n.s.k.....		(X)	1.9	(X)	1.8
36310 00	Household cooking equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	3.2	(X)	1.4
36310 02	Household cooking equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	1.7	(X)	.7
1972 product code	Product	1972 total product shipments including interplant transfers		1967		
		Quantity (1,000 units)	Value (million dollars)	Production for all purposes (quantity) (1,000 units)	Total product shipments including interplant transfers	
					Quantity (1,000 units)	Value (million dollars)
3632- --	HOUSEHOLD REFRIGERATORS AND FREEZERS, TOTAL.....	(X)	1,419.4	(X)	(X)	987.6
36321 00	Household Refrigerators:					
	As reported in census of manufactures.....	(X)	1,207.8	4,577.6	4,805.2	841.0
	As reported in Current Industrial Reports Series MA-36F.....	6,086.5	1,200.2	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
	Household refrigerators, including combination refrigerator freezer, complete units:					
36321 07	6.4 cubic feet and under.....	135.9	14.8	24.7	26.4	2.8
36321 08	6.5 to 8.4 cubic feet.....					
36321 15	8.5 to 9.4 cubic feet.....					
36321 16	9.5 to 10.4 cubic feet.....	1,148.8	145.0	39.3	54.3	5.7
36321 17	10.5 to 11.4 cubic feet.....			195.1	213.2	22.4
36321 21	11.5 to 12.4 cubic feet.....			99.8	91.1	11.7
36321 22	12.5 to 13.4 cubic feet.....			946.1	1,021.0	124.0
		241.3	33.9	140.9	175.5	21.6

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 total product ship- ments including interplant transfers		1967		
		Quantity (1,000 units)	Value (million dollars)	Production for all purposes (quantity) (1,000 units)	Total product shipments including interplant transfers	
					Quantity (1,000 units)	Value (million dollars)
3632- --	HOUSEHOLD REFRIGERATORS AND FREEZERS--Continued					
	Household Refrigerators:					
	As reported in Current Industrial Reports series MA-36F--Con.					
	Household refrigerators, including combination refrigerator freezer, complete units:					
36321 27	13.5 to 14.4 cubic feet.....	951.8	150.9	965.6	987.6	153.1
36321 33	14.5 to 15.4 cubic feet.....	816.6	152.5	436.6	435.9	79.3
36321 36	15.5 to 16.4 cubic feet.....	306.2	58.0	662.2	747.4	148.2
36321 42	16.5 to 17.4 cubic feet.....	775.8	171.6	319.1	334.1	63.6
36321 44	17.5 to 18.4 cubic feet.....	365.6	75.9	115.7	133.6	31.3
36321 46	18.5 to 19.4 cubic feet.....	429.5	113.3	210.6	182.3	54.6
36321 48	19.5 cubic feet and over.....	879.1	277.2	397.3	378.2	113.5
36321 61	Range-refrigerator and/or sink combination.....	17.9	7.1	24.6	24.6	7.0
	Household refrigerators, n.s.k.....	-	-	(X)	(X)	2.3
36322 00	Home and Farm Freezers:					
	As reported in census of manufactures.....	(X)	199.8	1,003.1	1,039.4	142.8
	As reported in Current Industrial Reports Series MA-36F.....	1,355.4	193.1	(1)	(1)	(1)
	Home and farm freezers, complete units for freezing and/or storing foods:					
36322 13	8.4 cubic feet and under.....	35.6	3.3	33.3	45.4	5.1
36322 16	8.5 to 10.4 cubic feet.....	92.6	10.2			
36322 19	10.5 to 12.4 cubic feet.....	89.9	10.9	98.5	89.5	10.2
	12.5 to 14.4 cubic feet:					
36322 21	Upright type.....	71.6	9.5	67.0	78.5	9.7
36322 22	Chest type.....					
	14.5 to 15.4 cubic feet:					
36322 24	Upright type.....	80.9	11.7	77.8	84.1	11.3
36322 25	Chest type.....	147.5	18.2	106.9	111.6	12.1
	15.5 to 17.4 cubic feet:					
36322 27	Upright type.....	349.1	50.8	203.4	199.9	29.4
36322 28	Chest type.....					
	17.5 to 19.4 cubic feet:					
36322 31	Upright type.....	138.1	23.2	127.4	128.8	20.0
36322 32	Chest type.....	20.8	3.2	26.1	26.7	3.2
	19.5 to 21.4 cubic feet:					
36322 34	Upright type.....	97.4	15.8	72.9	76.0	10.7
36322 35	Chest type.....	16.3	2.5			
	21.5 to 23.4 cubic feet:					
36322 41	Upright type.....	196.9	30.7	7.2	8.4	1.8
36322 43	Chest type.....					
	23.5 cubic feet and over:					
36322 45	Upright type.....	18.7	3.1	34.2	34.8	6.3
36322 47	Chest type.....					
	Home and farm freezers, n.s.k.....	-	-	(X)	(X)	1.7
36320 00	Household refrigerators and home and farm freezers, n.s.k., for establishments with 10 employees or more. (See note.).....	(X)	11.3	(X)	(X)	3.1
36320 02	Household refrigerators and home and farm freezers, n.s.k. for establishments with less than 10 employees. (See note.).....	(X)	.5	(X)	(X)	.5
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3633- --	HOUSEHOLD LAUNDRY EQUIPMENT, TOTAL.....		(X)	1,289.9	(X)	990.6
	Household Mechanical Washing Machines, Dryers, and Washer-Dryer Combinations:					
36331 00	As reported in the census of manufactures.....		(X)	1,138.5	(X)	843.2
	As reported in Current Industrial Reports Series MA-36F.....	1,000 units...	9,062.7	1,117.6	(1)	(1)
	Washing machines, mechanical, including those with dishwasher attachments:					
	Standard size, electrically driven:					
36331 31	Fully automatic and semiautomatic, excluding coin-operated	...do.....	4,844.3	660.9	4,085.1	531.6
36331 36	Nonautomatic, wringer-type, and spinner-type.....	...do.....	299.1	31.4	442.4	36.8
36331 39	All other, including gasoline-driven and small size.....	...do.....			(NA)	.3
	Dryers, mechanical:					
36331 51	Gas.....	...do.....	(4)	(4)	823.7	87.8
36331 55	Electric.....	...do.....	2,937.9	281.9	1,853.1	171.6
	Washer-dryer combinations (in one cabinet):					
36331 81	Electric.....	...do.....	4981.4	4123.4	68.4	15.1
36331 85	Gas.....	...do.....				

See footnotes at end of table.

TABLE 6A. Products and Product Classes--Quantity and Value of Shipments by All Producers: 1972 and 1967--Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3633- --	HOUSEHOLD LAUNDRY EQUIPMENT--Continued					
36333 --	Other Household Laundry Equipment and Parts <sup>5</sup> .....		(X)	148.7	(X)	142.7
36333 11	Coin-operated washer-extractor combinations, 10-pounds maximum load and under.....	1,000 units...	133.5	23.8	159.1	29.0
36333 15	Coin-operated drying tumblers, 10-pounds maximum load and under.	...do.....	(NA)	4.2	74.0	16.5
36333 71	Other household laundry equipment, including wringers.....				(X)	8.1
36333 91	Parts, attachments, and accessories for washer-extractor combinations and drying tumblers (coin-operated).....		(X)	9.1	(X)	13.4
36333 95	Parts, accessories, and attachments for household laundry equipment, sold separately, other than for washer-extractor combinations and drying tumblers (coin-operated).....		(X)	108.5	(X)	75.7
36333 00	Other household laundry equipment and parts, n.s.k.....		(X)	3.1	(X)	(NA)
36330 00	Household laundry equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	2.6	(X)	4.2
36330 02	Household laundry equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	.1	(X)	.5
3634- --	ELECTRIC HOUSEWARES AND FANS, TOTAL.....		(X)	1,448.0	(X)	1,071.3
36341 00	Electric Fans, except Industrial Type: As reported in the census of manufactures.....		(X)	127.7	(X)	123.6
	As reported in Current Industrial Reports series MA-36E.....	1,000 units...	10,927	136.5	(X)	126.5
36341 37	Desk and wall bracket, all sizes: Oscillating.....	...do.....	505	5.0	676	8.4
36341 51	Nonoscillating.....	...do.....	734	5.3	657	4.9
36341 75	Window-type propeller fans, household: Permanent type, reversible and nonreversible: 20 inch.....	...do.....	190	4.0	721	12.8
36341 77	Other than 20 inch.....	...do.....	107	1.3	456	5.2
36341 81	Portable (suitcase type), all sizes.....	...do.....	2,918	35.5	2,252	27.9
36341 84	Rollabouts (mounted on portable stand), all sizes.....	...do.....	193	3.1	488	9.0
36341 85	Kitchen ventilating and exhaust fans: Electric range hoods, ducted.....	...do.....	1,193	24.5	880	16.8
36341 86	Electric range hoods, nonducted.....	...do.....	999	20.9	532	13.8
36341 87	Oven hoods, ducted and nonducted.....	...do.....	33	.7		
36341 98	All other household and kitchen ventilating and exhaust fans	...do.....	3,786	31.5	2,225	20.4
	Other household electric fans, including high pedestal fans and floor or hassock type fans.....	...do.....	269	4.8	545	7.2
36342 00	Electric Razors and Dry Shavers: As reported in the census of manufactures.....		(X)	64.3	(X)	66.2
36342 13	As reported in Current Industrial Reports Series MA-36E.....	1,000 units...	4,904	64.3	4,800	63.8
36342 15	Men's.....	...do.....	2,534	45.7	2,878	47.5
	Ladies'.....	...do.....	2,370	18.7	1,922	16.3
36343 00	Other Small Electric Household Appliances: As reported in the census of manufactures.....		(X)	1,121.6	(X)	799.7
	As reported in Current Industrial Reports Series MA-36E.....		(X)	<sup>9</sup> 1,066.4	(X)	730.0
36343 12	Broilers: Without rotisseries.....	1,000 units...	2,069	22.4	878	6.7
36343 13	With rotisseries.....	...do.....	1,204	21.9	830	13.1
36343 14	Automatic coffeemakers: Vacuum and percolator types.....	...do.....	8,188	67.8	6,000	50.3
36343 15	Urn type.....	...do.....	1,984	16.5	2,395	21.3
36343 23	Deep fat fryers, excluding covers and controls shipped separately.....	...do.....	824	6.9	532	4.3
36343 24	Ovens and roasters (with or without broiler attachments).....	...do.....	1,198	26.1	322	4.2
36343 29	Hotplates and disc stoves (1,650 watts or less), except built-in units.....	...do.....	1,170	5.8	790	3.2
36343 36	Toasters, automatic.....	...do.....	6,485	58.0	3,891	42.5
36343 39	Waffle irons, sandwich grills, griddles, and combinations.....	...do.....	1,555	21.2	1,364	17.1
36343 42	Frying pans (skillets), excluding covers and controls shipped separately.....	...do.....	3,223	46.0	2,291	28.3
36343 43	Air space heaters (portable room heaters only): Fan forced type.....	...do.....	2,455	26.7	1,913	21.9
36343 44	Other types, including convector, radiant, and convector-radiant.....	...do.....	136	1.9	215	2.7
36343 45	Air space heaters for fixed or permanent installations, except warm air and unit heaters: Baseboard, excluding glass panel type.....		(X)	<sup>6</sup> 39.5	(X)	30.9
36343 47	Other.....		(X)	<sup>6</sup> 35.6	(X)	13.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3634- --	ELECTRIC HOUSEWARES AND FANS--Continued					
	Other Small Electric Household Appliances: As reported in Current Industrial Reports series MA-36E--Con.					
36343 48	Corn poppers.....	1,000 units...	4,118	24.2	1,554	5.4
36343 49	Other household electric cooking and heating appliances (immersion heaters, faucet attachment water heaters, steam radiators, pressure cookers, casseroles, nonautomatic toasters, nonautomatic coffeemakers, automatic saucepans, food warmers, etc.), excluding covers and controls shipped separately.....	.....	(X)	40.8	(X)	30.1
36343 50	Standard household electric irons:					
36343 61	Steam and spray.....	1,000 units...	8,572	81.7	7,596	69.8
36343 65	Other than steam, automatic type (thermostat controlled heat).....	...do.....	737	5.3	1,567	9.6
36343 69	Travel irons.....	...do.....				
	Other electric irons (tailors', milliners', boudoir, nonautomatic standard household, etc.).....	...do.....			419	3.2
	Household food preparation appliances:					
	Food mixers, including standard attachments sold together with mixers:					
36343 71	Hand (portable).....	...do.....	4,024	33.5	3,845	31.1
36343 75	Stand.....	...do.....	1,302	27.7	771	19.8
36343 76	Blenders (liquefiers).....	...do.....	5,417	76.5	3,610	71.2
36343 77	Ice crushers.....	1,000 units...	404	2.1	405	3.8
36343 78	Other household food preparation appliances, including drink mixers, whippers, juicers, grinders, slicers, and choppers.	.....	(X)	30.4	(X)	8.9
	Miscellaneous electric appliances:					
36343 83	Electric blankets.....	1,000 units...	4,042	44.4	4,036	37.1
36343 85	Other electric bedcoverings, including sheets, mattress covers, and comforters.....	...do.....				
36343 87	Heating pads, including foot warmers.....	...do.....	3,854	10.6	3,096	7.8
36342 88	Electric knives.....	...do.....	1,914	17.6	2,319	23.7
36343 91	Electric toothbrushes.....	...do.....	( <sup>7</sup> )	( <sup>7</sup> )	1,568	13.6
36343 92	Air purifiers, portable.....	...do.....	459	3.1	( <sup>8</sup> )	( <sup>8</sup> )
36343 93	Can openers (single-purpose units, combination-purpose units such as can opener combined with knife sharpener, etc.)....	...do.....	5,487	37.5	5,504	42.7
	Hair dryers:					
36343 94	With bonnets.....	...do.....	2,817	33.7	3,201	39.4
36343 95	Without bonnets.....	...do.....	756	9.7	529	8.0
36343 96	Humidifiers (portable).....	...do.....	877	<sup>6</sup> 27.1	149	4.1
36343 97	Knife sharpeners.....	...do.....	(NA)	<sup>7</sup> 164.0	48	.3
36343 98	Other electric appliances (curling irons, vibrators, hand and face dryers, etc.).....	.....			(X)	<sup>8</sup> 40.1
36344 --	Parts and Attachments for Small Electric Household Appliances.....	.....	(X)	79.0	(X)	60.3
36344 11	Parts and accessories for electric housewares and fans.....	.....	(X)	70.7	(X)	58.3
36344 31	Electric controls for frying pans and for other household cooking appliances, shipped separately.....	.....	(X)	8.3	(X)	2.1
36344 00	Parts and attachments, n.s.k.....	.....	(X)	( <sup>9</sup> )	(X)	(NA)
36340 00	Electric housewares and fans, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	<sup>9</sup> 42.9	(X)	15.7
36340 02	Electric housewares and fans, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	12.5	(X)	5.8
3635- --	HOUSEHOLD VACUUM CLEANERS, TOTAL.....	.....	(X)	439.2	(X)	254.5
	Household Vacuum Cleaners, Including Parts and Attachments:					
36350 11	Hand type.....	1,000 units...	( <sup>10</sup> )	( <sup>10</sup> )	129.5	2.0
36350 31	Upright, tank, canister, and other general purpose household types.....	...do.....	7,896.7	353.6	6,071.7	208.6
36350 41	Complete power units, central system type.....	...do.....	32.0	5.7	25.0	3.3
36350 51	Attachments and cleaning tools, including central system attachments.....	.....	(X)	36.1	(X)	17.8
36350 71	Parts for household type vacuum cleaners, including central system parts.....	.....	(X)	<sup>10</sup> 39.7	(X)	19.0
36350 00	Household vacuum cleaners, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	3.7	(X)	2.8
36350 02	Household vacuum cleaners, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	.4	(X)	.9

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3636- --	SEWING MACHINES, TOTAL.....		(X)	152.1	(X)	116.8
	Sewing Machines and Parts, Excluding Cases and Cabinets sold separately:					
36360 21	Household sewing machines, including heads for sale with cabinets or cases and heads for sale separately.....	1,000 heads...	(D)	(D)	(D)	(D)
36360 71	Industrial sewing machines, excluding sole stitching machines...	...do.....	103.2	83.2	99.8	49.3
36360 81	Sewing machine parts and attachments for household and industrial sewing machines, excluding cabinets and cases.....		(X)	<sup>1</sup> 63.2	(X)	<sup>1</sup> 62.1
36360 00	Sewing machines, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	3.3	(X)	3.0
36360 02	Sewing machines, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.4	(X)	2.4
3639- --	HOUSEHOLD APPLIANCES, N.E.C., TOTAL.....		(X)	816.5	(X)	510.2
	Household Water Heaters, Electric:					
36391 00	As reported in the census of manufactures.....		(X)	119.9	(X)	63.4
	As reported in Current Industrial Reports Series MA-36F.....		2,534.6	119.0	(NA)	(12)
	Electric water heaters (for permanent installation):					
	Storage type:					
36391 11	34 gallons and under.....	1,000 units...	1,025.8	35.5	431.2	13.8
36391 12	35 to 44 gallons.....	...do.....	676.0	32.7	400.9	16.1
36391 14	45 to 54 gallons.....	...do.....	605.0	31.3	467.7	20.4
36391 15	55 gallons and over.....	...do.....			151.8	10.3
36391 98	Other types, including circulating and portable.....		227.8	19.5	(X)	2.0
	Electric water heaters, n.s.k.....		-	-	(X)	.6
	Household Water Heater, Except Electric:					
36392 00	As reported in the census of manufactures.....		(X)	179.5	(X)	130.1
	As reported in Current Industrial Reports Series MA-34N.....		(X)	<sup>13</sup> 171.3	(X)	135.9
	Water heaters:					
	Direct-fired water heaters:					
	Gas:					
36392 11	Underfired storage.....	1,000 units...				
36392 13	Sidearm.....	...do.....	3,320.2	162.1	2,871.8	118.7
	Oil:					
36392 23	Underfired storage.....	...do.....				
36392 25	Sidearm.....	...do.....	15.6	3.2	13.5	2.0
	Coal and wood tank heaters:					
36392 31	Cast iron.....	...do.....				
36392 33	Steel.....	...do.....	(D)	(D)	(Z)	(Z)
	Indirect-fired water heaters:					
	Storage, cast or coil-type (less tank):					
36392 41	20 g.p.b. and less.....	...do.....				
36392 43	21 g.p.h. and more.....	...do.....	2.4	.5	6.1	.6
36392 51	Tanks (with or without generator coils).....	...do.....			2.8	3.7
36392 55	Instantaneous.....	...do.....	54.9	5.0	174.0	10.0
36392 53	Generator coils with tank collar (sold without tank).....	...do.....	2.4	.5	5.7	1.0
	Dishwashing machines and Food Waste Disposers:					
36394 00	As reported in the census of manufactures.....		(X)	417.9	(X)	242.6
	As reported in Current Industrial Reports Series MA-36F.....	1,000 units...	5,463.2	426.6	(NA)	( <sup>12</sup> )
	Dishwashing machines:					
36394 12	Portable type, including convertible type.....	...do.....	803.5	105.4	604.4	71.1
36394 14	Built-in type.....	...do.....	2,118.8	254.5	977.5	128.0
36394 71	Food-waste disposers (all sizes).....	...do.....	2,540.9	66.7	1,498.5	43.5
36399 --	Other Household Appliances and Parts.....		(X)	86.4	(X)	56.0
36399 61	Other household service machines, except household floor waxing and polishing machines.....		(X)	46.8	(X)	16.3
36399 63	Floor waxing and polishing machines.....	1,000 units...	<sup>14</sup> 991.4	<sup>14</sup> 18.9	1,410.3	29.8
36399 91	Parts and accessories for electric water heaters.....		(X)	19.0	(X)	7.1
36399 00	Other household-type appliances and parts, n.s.k.....		(X)	1.7	(X)	2.8
36390 00	Household appliances, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	10.8	(X)	16.6
36390 02	Household appliances, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	2.0	(X)	1.6

See footnotes on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

<sup>1</sup>Current Industrial Reports series MA-36F, "Major Household Appliances," was initiated in 1968. Accordingly, the source of the product detail for 1967 was the census of manufactures.

<sup>2</sup>Figures for electric ranges 33 inches and over in width, high-low oven, are included with "Other electric ranges not listed above" (product code 36311 79).

<sup>3</sup>Excludes kerosene, gasoline, fuel oil, and miscellaneous domestic cooking appliances.

<sup>4</sup>Figures for "Dryers, mechanical, gas" are included with "Washer-dryer combinations (in one cabinet)."

<sup>5</sup>Product class 36333, "Other Household Laundry Equipment and Parts," was expanded to include coin-operated washer-extractor combinations and coin-operated drying tumblers, both 10 pounds maximum load and under. The 1967 Standard Industrial Classification code was 35820 11 and 35820 15, respectively.

<sup>6</sup>Revised from data previously published in Current Industrial Reports series MA-36E(73).

<sup>7</sup>For 1972, electric toothbrushes are included with "Other electric appliances" (36343 98) in order to avoid disclosing figures for individual companies.

<sup>8</sup>For 1967, Air purifiers, portable, are included with "Other electric appliances" (36343 98) in order to avoid disclosing figures for individual companies.

<sup>9</sup>Product 36344 00, Parts and attachments for small electrical household appliances, n.s.k., combined with 36340 00 to avoid disclosing data for individual companies.

<sup>10</sup>Hand-type vacuum cleaners (36350 11) are included with product code 36350 71 in order to avoid disclosing figures of individual companies.

<sup>11</sup>Includes the value of shipments of household sewing machines.

<sup>12</sup>Not collected in 1967.

<sup>13</sup>Cast-iron and steel, and wood tank water heaters are excluded to avoid disclosing operations of individual companies.

<sup>14</sup>Source: 1972 data from Current Industrial Reports series MA-36F, Major Household Appliances.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ELECTRIC HOUSEHOLD RANGES, OVENS, AND PARTS (36311)			HOUSEHOLD OVENS, RANGES, AND PARTS, EXCEPT ELECTRIC (36312)		
United States.....	582.8	340.8	United States.....	439.3	289.1
Northeast Region.....	31.0	EE	Northeast Region.....	58.6	50.6
Middle Atlantic Division.....	31.0	EE	New England Division.....	BB	BB
New York.....	FF	CC	Massachusetts.....	BB	BB
Pennsylvania.....	CC	CC	Middle Atlantic Division.....	GG	FF
North Central Region.....	303.6	186.9	New York.....	EE	EE
East North Central Division.....	GG	GG	New Jersey.....	CC	4.5
Ohio.....	158.9	100.5	Pennsylvania.....	FF	FF
Indiana.....	CC	CC	North Central Region.....	166.3	117.5
Illinois.....	84.1	62.6	East North Central Division.....	125.3	98.6
Michigan.....	FF	EE	Ohio.....	29.5	27.0
Wisconsin.....	CC	BB	Indiana.....	CC	BB
West North Central Division.....	EE	AA	Illinois.....	83.5	67.9
Iowa.....	EE	( <sup>1</sup> )	Wisconsin.....	CC	AA
South Region.....	223.9	131.6	West North Central Division.....	41.0	18.9
South Atlantic Division.....	FF	BB	Minnesota.....	EE	BB
Maryland.....	FF	AA	Missouri.....	CC	BB
East South Central Division.....	GG	GG	Kansas.....	EE	EE
Kentucky.....	GG	GG	South Region.....	176.6	93.9
Tennessee.....	GG	33.4	South Atlantic Division.....	BB	AA
Alabama.....	AA	( <sup>1</sup> )	Maryland.....	BB	(NA)
West South Central Division.....	BB	( <sup>1</sup> )	East South Central Division.....	164.8	GG
Texas.....	BB	( <sup>1</sup> )	Kentucky.....	FF	EE
West Region.....	24.2	CC	Tennessee.....	GG	76.5
Pacific Division.....	24.2	CC	West South Central Division.....	CC	(NA)
Washington.....	AA	( <sup>1</sup> )	Texas.....	CC	(NA)
California.....	FF	CC	West Region.....	37.8	27.0
			Pacific Division.....	37.8	FF
			California.....	FF	FF

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HOME MECHANICAL WASHERS, DRYERS, AND COMBINATIONS (36331)			ELECTRIC RAZORS AND DRY SHAVERS (36342)		
United States.....	1 138.5	843.2	United States.....	64.3	(NA)
Northeast Region.....	BB	AA	Northeast Region.....	FF	(NA)
Middle Atlantic Division.....	BB	AA	New England Division.....	FF	(NA)
New York.....	BB	AA	Connecticut.....	FF	(NA)
North Central Region.....	GG	719.9	Middle Atlantic Division.....	CC	(NA)
East North Central Division.....	725.0	GG	Pennsylvania.....	CC	(NA)
Ohio.....	520.2	356.3	South Region.....	FF	(NA)
Illinois.....	GG	GG	South Atlantic Division.....	EE	(NA)
Michigan.....	GG	GG	Delaware.....	BB	(NA)
Wisconsin.....	FF	GG	North Carolina.....	EE	(NA)
West North Central Division.....	GG	GG	East South Central Division.....	BB	(NA)
Iowa.....	GG	GG	Tennessee.....	BB	(NA)
South Region.....	GG	GG			
East South Central Division.....	GG	GG	OTHER SMALL HOUSEHOLD ELECTRIC APPLIANCES (36343)		
Kentucky.....	GG	GG	United States.....	1,121.6	799.7
Tennessee.....	AA	( <sup>1</sup> )	Northeast Region.....	312.9	GG
West South Central Division.....	FF	( <sup>1</sup> )	New England Division.....	88.1	GG
Arkansas.....	FF	( <sup>1</sup> )	Massachusetts.....	EE	CC
			Connecticut.....	73.8	51.2
OTHER HOUSEHOLD LAUNDRY EQUIPMENT AND PARTS (36333)			Middle Atlantic Division.....	224.8	148.4
United States.....	148.7	(NA)	New York.....	GG	83.2
Northeast Region.....	CC	(NA)	New Jersey.....	3.1	( <sup>1</sup> )
Middle Atlantic Division.....	BB	(NA)	Pennsylvania.....	GG	GG
New York.....	BB	(NA)	North Central Region.....	314.1	249.3
Pennsylvania.....	BB	(NA)	East North Central Division.....	GG	179.4
North Central Region.....	132.3	(NA)	Ohio.....	36.3	FF
East North Central Division.....	GG	(NA)	Indiana.....	16.1	EE
Ohio.....	FF	(NA)	Illinois.....	61.3	58.8
Illinois.....	19.7	(NA)	Michigan.....	EE	( <sup>1</sup> )
Michigan.....	FF	(NA)	Wisconsin.....	91.8	64.5
Wisconsin.....	FF	(NA)	West North Central Division.....	GG	69.9
West North Central Division.....	EE	(NA)	Iowa.....	EE	CC
Iowa.....	EE	(NA)	Missouri.....	GG	GG
Missouri.....	AA	(NA)	South Region.....	431.5	281.3
South Region.....	8.9	(NA)	South Atlantic Division.....	185.7	164.7
East South Central Division.....	CC	(NA)	Delaware.....	BB	CC
Kentucky.....	CC	(NA)	Maryland.....	CC	CC
West South Central Division.....	BB	(NA)	Virginia.....	BB	BB
Arkansas.....	AA	(NA)	North Carolina.....	130.0	116.6
			South Carolina.....	43.4	FF
ELECTRIC FANS, EXCEPT INDUSTRIAL TYPE (36341)			East South Central Division.....	180.4	76.4
United States.....	127.7	123.6	Kentucky.....	CC	( <sup>1</sup> )
Northeast Region.....	CC	23.9	Tennessee.....	83.7	FF
New England Division.....	CC	CC	Alabama.....	EE	AA
Connecticut.....	BB	CC	Mississippi.....	76.5	42.2
Middle Atlantic Division.....	CC	EE	West South Central Division.....	65.4	40.2
New York.....	CC	4.8	Arkansas.....	39.5	FF
North Central Region.....	73.6	70.6	Louisiana.....	EE	EE
East North Central Division.....	GG	53.4	Texas.....	CC	BB
Ohio.....	FF	28.6	West Region.....	63.1	GG
Illinois.....	18.0	EE	Mountain Division.....	EE	EE
Michigan.....	BB	AA	Colorado.....	EE	EE
Wisconsin.....	AA	BB	New Mexico.....	AA	( <sup>1</sup> )
West North Central Division.....	EE	17.2	Pacific Division.....	GG	FF
Missouri.....	EE	17.2	Oregon.....	AA	( <sup>1</sup> )
South Region.....	42.7	28.7	California.....	GG	FF
South Atlantic Division.....	BB	CC			
South Carolina.....	BB	BB	PARTS AND ATTACHMENTS FOR SMALL ELECTRIC HOUSEWARES (36344)		
Georgia.....	AA	( <sup>1</sup> )	United States.....	79.0	62.3
East South Central Division.....	21.3	16.9	Northeast Region.....	32.4	13.4
Tennessee.....	14.6	EE	New England Division.....	17.1	6.2
Mississippi.....	CC	( <sup>1</sup> )	Maine.....	BB	( <sup>1</sup> )
West South Central Division.....	EE	BB	New Hampshire.....	AA	( <sup>1</sup> )
Louisiana.....	CC	(NA)	Massachusetts.....	CC	BB
Texas.....	6.5	BB	Connecticut.....	5.0	BB
West Region.....	1.0	(NA)	Middle Atlantic Division.....	15.3	7.1
Pacific Division.....	1.0	(NA)	New York.....	CC	BB
California.....	1.0	(NA)	New Jersey.....	5.8	AA
			Pennsylvania.....	BB	AA

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PARTS AND ATTACHMENTS FOR SMALL ELECTRIC HOUSE- WARES (36344)--Continued			HOUSEHOLD WATER HEATERS, EXCEPT ELECTRIC (36392)-- Continued		
North Central Region.....	FF	33.2	West Region.....	34.4	31.9
East North Central Division.....	21.0	FF	Mountain Division.....	BB	( <sup>1</sup> )
Ohio.....	2.8	17.9	Nevada.....	BB	( <sup>1</sup> )
Indiana.....	CC	AA	Pacific Division.....	FF	31.9
Illinois.....	1.0	9.9	California.....	FF	GG
Wisconsin.....	EE	3.4			
South Region.....	25.3	EE	DISHWASHING MACHINES AND FOOD WASTE DISPOSERS (36394) <sup>2</sup>		
South Atlantic Division.....	2.8	CC	United States.....	417.9	(NA)
North Carolina.....	BB	CC			
East South Central Division.....	21.7	7.7	Northeast Region.....	6.3	(NA)
Kentucky.....	BB	AA	Middle Atlantic Division.....	6.3	(NA)
Tennessee.....	CC	BB	New York.....	BB	(NA)
Mississippi.....	EE	BB	New Jersey.....	BB	(NA)
			Pennsylvania.....	AA	(NA)
HOUSEHOLD WATER HEATERS, ELECTRIC (36391)					
United States.....	119.9	63.4	North Central Region.....	168.5	(NA)
Northeast Region.....	1.4	8.5	East North Central Division.....	GG	(NA)
North Central Region.....	46.5	28.7	Ohio.....	91.1	(NA)
East North Central Division.....	FF	28.7	Illinois.....	AA	(NA)
Ohio.....	BB	5.2	Wisconsin.....	GG	(NA)
Illinois.....	FF	EE	West North Central Division.....	EE	(NA)
Michigan.....	EE	BB	Iowa.....	EE	(NA)
South Region.....	56.9	17.6	South Region.....	GG	(NA)
East South Central Division.....	GG	17.6	East South Central Division.....	GG	(NA)
Tennessee.....	51.5	17.6	Kentucky.....	GG	(NA)
West South Central Division.....	BB	( <sup>1</sup> )	Tennessee.....	CC	(NA)
Texas.....	BB	( <sup>1</sup> )			
West Region.....	15.2	8.5	West Region.....	GG	(NA)
Mountain Division.....	AA	( <sup>1</sup> )	Mountain Division.....	EE	(NA)
Nevada.....	AA	( <sup>1</sup> )	Utah.....	EE	(NA)
Pacific Division.....	EE	8.5	Pacific Division.....	FF	(NA)
Oregon.....	BB	BB	California.....	FF	(NA)
California.....	CC	BB			
HOUSEHOLD WATER HEATERS, EXCEPT ELECTRIC (36392)			OTHER HOUSEHOLD APPLIANCES AND PARTS (36399) <sup>2</sup>		
United States.....	179.5	130.1	United States.....	86.4	(NA)
Northeast Region.....	4.5	14.0	Northeast Region.....	22.5	(NA)
New England Division.....	1.9	1.3	New England Division.....	CC	(NA)
Rhode Island.....	AA	( <sup>1</sup> )	Massachusetts.....	CC	(NA)
Middle Atlantic Division.....	2.6	12.8	Middle Atlantic Division.....	FF	(NA)
New York.....	BB	BB	New York.....	AA	(NA)
North Central Region.....	85.0	GG	New Jersey.....	EE	(NA)
East North Central Division.....	GG	61.3	Pennsylvania.....	EE	(NA)
Ohio.....	BB	CC			
Illinois.....	GG	FF	North Central Region.....	17.9	(NA)
Michigan.....	EE	CC	East North Central Division.....	EE	(NA)
Wisconsin.....	BB	AA	Ohio.....	EE	(NA)
South Region.....	55.6	FF	Wisconsin.....	BB	(NA)
East South Central Division.....	FF	FF	West North Central Division.....	AA	(NA)
Tennessee.....	FF	FF	Minnesota.....	AA	(NA)
Alabama.....	AA	( <sup>1</sup> )	South Region.....	FF	(NA)
West South Central Division.....	CC	( <sup>1</sup> )	South Atlantic Division.....	CC	(NA)
Texas.....	CC	( <sup>1</sup> )	Maryland.....	AA	(NA)
			Virginia.....	BB	(NA)
			East South Central Division.....	FF	(NA)
			Kentucky.....	FF	(NA)
			West Region.....	EE	(NA)
			Pacific Division.....	EE	(NA)
			California.....	EE	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>This State or division was not shown as a separate line in table 6B in the 1967 report for this industry.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ significantly from prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3631	Household cooking equipment.....	1,027.0	898.7	810.9	794.1	729.2	632.1	536.7	433.1
36311	Electric household ranges, ovens, and parts.....	582.8	519.3	459.6	440.6	404.3	340.8	282.1	203.7
36312	Household ovens, ranges, and parts, except electric.....	439.3	369.1	342.8	352.1	323.9	289.1	253.6	229.4
36310	Household cooking equipment, n.s.k.....	4.9	10.3	(8.5)	1.4	1.0	2.1	1.1	-
3632	Household refrigerators and freezers.....	1,419.4	1,371.6	1,220.0	1,180.2	1,168.7	987.6	831.8	729.2
36321	Household refrigerators and refrigerator-freezers.....	1,207.8	1,181.7	1,026.2	1,005.0	1,006.9	841.0	687.9	551.2
36322	Home and farm freezers.....	199.8	189.9	193.8	174.1	160.4	142.8	143.1	-
36320	Household refrigerators and refrigerator-freezers, n.s.k....	11.8	-	-	1.1	1.4	3.6	.8	178.0
3633	Household laundry equipment.....	1,289.9	1,124.6	1,023.5	1,024.5	1,031.6	990.6	766.1	719.6
36331	Home mechanical washers, dryers, and combinations.....	1,138.5	1,009.4	913.6	929.6	932.4	843.2	698.8	672.2
36333	Other household laundry equipment and parts <sup>2</sup> .....	148.7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
36330	Household laundry equipment, n.s.k.....	2.7	.3	(7.7)	3.3	3.3	4.7	.5	.9
3634	Electric housewares and fans.....	1,448.0	1,271.4	1,260.7	1,224.0	1,125.8	1,071.3	810.0	543.8
36341	Electric fans, except industrial type.....	127.7	131.7	138.2	134.8	118.8	123.6	102.1	77.1
36342	Electric razors and dry shavers.....	64.3	66.6	61.5	60.6	65.9	66.2	53.4	54.1
36343	Other small household electric appliances.....	1,121.6	984.7	977.8	950.6	852.8	799.7	562.6	336.2
36344	Parts and attachments for small electric housewares.....	79.0	67.3	61.1	66.4	64.5	60.3	81.5	55.9
36340	Electric housewares and fans, n.s.k.....	55.4	21.1	(22.1)	(11.6)	(23.8)	21.5	10.4	20.6
36350	Household vacuum cleaners, parts, and attachments.....	439.2	366.2	328.2	309.6	276.0	254.5	183.1	155.6
36360	Sewing machines and parts, except separate cabinets.....	152.1	135.0	125.5	133.5	129.2	116.8	104.7	97.7
3639	Household appliances, n.e.c.....	816.5	730.3	622.7	588.3	567.0	510.2	<sup>3</sup> 415.7	351.7
36391	Household water heaters, electric <sup>3</sup> .....	119.9	102.5	90.5	81.5	71.8	63.4	61.4	56.8
36392	Household water heaters, except electric.....	179.5	152.2	138.2	151.6	130.3	130.1	142.2	163.8
36394	Dishwashing machines and food waste disposers.....	417.9	472.8	390.9	349.4	354.2	242.6	208.1	131.1
36399	Other household appliances and parts.....	86.4					56.0		
36390	Household appliances, n.e.c., n.s.k.....	12.8	2.8	(3.1)	5.8	(10.7)	18.2	2.9	-

- Represents zero.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ significantly from prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level. See footnote 5, table 6A, of this report.

<sup>3</sup>Excludes parts and accessories for electric water heaters.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967			
			Quantity	Delivered cost	Quantity	Delivered cost		
				(million dollars)		(million dollars)		
INDUSTRY 3631.--HOUSEHOLD COOKING EQUIPMENT								
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 458.6	(X)	268.3		
	Mill shapes and forms (except castings):							
	Carbon steel:							
331012	Sheet and strip.....	1,000 s. tons.	394.1	84.7	277.5	44.4		
331013	Plates.....	..do.....	9.8	3.5	5.5	1.8		
331015	Structural shapes.....	..do.....						
331017	Wire and wire products.....	..do.....						
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	.5	3.9	.8		
	Alloy steel (except stainless):							
331021	Bars and bar shapes.....	..do.....	(NA)	11.9	(NA)	4.4		
331029	All other alloy steel mill shapes and forms.....	..do.....						
	Stainless steel:							
331033	Sheet and strip.....	..do.....	5.5	6.4				
331050	All other stainless steel mill shapes and forms.....	..do.....	(NA)	.3				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.9	4.2	1.4	1.6		
335791	Aluminum content.....	Million lb....	(NA)	(X)	(NA)	(X)		
	Copper and copper-base alloy:							
335728	Bare wire (for electrical conduction only).....	..do.....	(D)	(D)	(NA)	(NA)		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	(NA)	.4	(NA)	1.3		
335143	Plate, sheet, and strip, including military cups and discs...	..do.....						
335152	Pipe and tube.....	..do.....						
	Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	..do.....	3.3	1.3	1.6	.7		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	2.3	1.7	2.3	1.6		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	.5	(NA)	.2		
999808	Aluminum and aluminum-base alloy scrap.....	1,000 s. tons.	(D)	(D)	(NA)	(NA)		
346901	Metal stampings.....	..do.....	14.4	6.2	(NA)	(NA)		
387316	Timing mechanisms.....	1,000 units...	2,896.7	16.0	(NA)	(NA)		
	Castings (rough and semifinished):							
332011	Iron (gray and malleable) <sup>2</sup> .....	1,000 s. tons.	4.3	2.7	7.9	3.3		
336100	Aluminum and aluminum-base alloy <sup>2</sup> .....	Million lb....	3.3	2.3	(D)	(D)		
	Electric motors and generators:							
	Fractional horsepower electric motors (under 1 hp.):							
362110	Timing motors, synchronous and subsynchronous <sup>2</sup> .....	1,000 units...	208.2	.8	(D)	(D)		
362115	Other fractional horsepower electric motors (excluding timing motors <sup>2</sup> .....	..do.....	2,186.1	5.7	1,345.6	3.0		
260091	Paper and paperboard containers.....		(X)	16.0	(X)	10.7		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	279.7	(X)	<sup>1</sup> 177.4		
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>3</sup> .....		(X)	12.5	(X)	17.1		
INDUSTRY 3632.--HOUSEHOLD REFRIGERATORS AND FREEZERS								
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 820.8	(X)	932.9		
	Mill shapes and forms, except castings:							
	Carbon steel:							
331012	Sheet and strip.....	1,000 s. tons.	502.0	107.3	600.7	48.5		
331017	Wire and wire products.....	..do.....	4.9	2.6	6.5	1.4		
331011	Bars and bar shapes.....	..do.....	47.2	12.1	97.4	19.4		
331013	Plate.....	..do.....						
331015	Structural shapes.....	..do.....						
331019	All other carbon steel mill shapes and forms.....	..do.....	1.2	2.2	5.0	2.9		
331020	Alloy steel (except stainless).....	..do.....						
	Stainless steel:							
331033	Sheet and strip.....	..do.....						
331050	All other stainless steel mill shapes and forms.....	..do.....	(D)	(D)	5.3	5.2		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).						
	Copper and copper-base alloy:							
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	27.9	25.5		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	22.5	16.2				
335143	Plate, sheet, and strip, including military cups and discs...	..do.....						
335152	Pipe and tube.....	..do.....						
	Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	..do.....	27.3	10.3	36.6	13.2		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	25.5	9.2	10.7	6.4		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....						

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3632.--HOUSEHOLD REFRIGERATORS AND FREEZERS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Castings (rough and semifinished):					
332011	Iron (gray and malleable) <sup>2</sup> .....	1,000 s. tons.	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy <sup>2</sup> .....	Million lb....	(D)	(D)	4.3	3.2
336200	Copper and copper-base alloy <sup>2</sup> .....	...do.....	(D)	(D)	(NA)	(NA)
339915	Metal powders.....	.....	(D)	(D)	(NA)	(NA)
358501	Compressors, compressor units, condensing units, fin coils, and other heat-transfer equipment.....	.....	(X)	84.1	(NA)	(NA)
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s.tons..	(D)	(D)	(D)	(D)
	Electric motors and generators:					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous <sup>2</sup> .....	1,000 units...	3,940.5	6.4	1,381.8	4.4
362115	Fractional horsepower electric motors (excluding timing motors) <sup>2</sup> .....	...do.....	11,053.5	70.4	12,555.0	74.8
362120	Integral horsepower motors and generators (1 hp. and over) <sup>2</sup> ....	...do.....	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(X)	(D)	(D)	(D)
356228	Roller.....	.....	(X)	26.1	(NA)	32.4
260091	Paper and paperboard containers.....	.....	(X)	456.7	(X)	<sup>1</sup> 596.7
970099	All other materials and components, parts, containers, and sup- plies consumed.....	.....	(X)	1.6	(X)	49.1
976000	Material, components, parts, containers, and supplies consumed, n.s.k. <sup>3</sup> .....	.....	(X)			
	INDUSTRY 3633.--HOUSEHOLD LAUNDRY EQUIPMENT					
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>1</sup> 665.1	(X)	538.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331012	Sheet and strip.....	1,000 s. tons.	623.5	129.4	449.9	75.0
331011	Bars and bar shapes.....	...do.....	63.8	18.2	(NA)	18.9
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	7.4	6.7	2.4	2.4
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....				
331050	All other stainless steel mill shapes and forms.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	2.5	3.2	4.6	3.7
335791	Aluminum content.....	Million lb....	(NA)	(X)	(NA)	(X)
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	...do.....	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....				
335143	Plate, sheet, and strip (including military cups and discs)..	...do.....	(NA)	.4	(NA)	1.2
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	9.8	2.9	6.0	2.1
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	...do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....				
346901	Metal stampings.....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
387316	Timing mechanisms.....	1,000 units...	6,536.2	26.3	(NA)	(NA)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	44.7	14.1	46.9	12.0
336100	Aluminum and aluminum-base alloy.....	Million lb....	11.9	6.7	5.4	3.3
	Electric motors and generators: <sup>2</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	4,335.5	20.1
362115	Fractional horsepower electric motors (excluding timing motors).....	...do.....	6,941.9	66.4	5,368.3	51.0
362120	Integral horsepower electric motors and generators (1 hp. and over).....	...do.....	2,417.2	27.7	(D)	(D)
260091	Paper and paperboard containers.....	.....	(X)	23.6	(X)	15.0
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	326.5	(X)	<sup>1</sup> 290.3
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>3</sup> .....	.....	(X)	2.3	(X)	43.7

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3634.--ELECTRIC HOUSEWARES AND FANS					
	Materials, components, parts, supplies, and containers, total.		(X)	649.2	(X)	448.8
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	.7	(NA)	2.1
331012	Sheet and strip.....	..do.....	155.0	35.0	119.2	24.6
331017	Wire and wire products.....	..do.....	}	(NA)	(NA)	3.4
331015	Structural shapes.....	..do.....				
331013	Plates.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	6.1	3.0	}	(NA)
331029	All other alloy steel mill shapes and forms.....	..do.....	26.3	9.5		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	11.4	16.4		11.0
331050	All other stainless steel mill shapes and forms.....	..do.....	1.7	3.0		
335790	Insulated wire and cable.....	Mil. lb.(cop- per content).	19.5	21.6	9.9	9.1
335791	Aluminum content.....	Million lb....	1.6	(X)	(NA)	(X)
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	6.7	8.2	6.8	5.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	1.7	1.8	}	(NA)
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	3.1	2.4		
335152	Pipe and tube.....	..do.....	.9	.8	1.1	.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	45.7	16.9	22.6	9.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	..do.....	1.5	1.3	1.3	.8
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	18.9	4.5	3.7	1.8
346901	Metal stampings.....	..do.....	(D)	(D)	(NA)	(NA)
387316	Timing mechanisms.....	1,000 units...	740.2	1.1	(NA)	(NA)
999808	Aluminum and aluminum-base alloy scrap (excluding home scrap)....	1,000 s. tons.	(D)	(D)	-	-
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	..do.....	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	1,000 lb.....	29.2	11.2	19.6	10.7
	Electric motors and generators: <sup>2</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	2,597.2	8.0	}	6,224.7
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	14,570.2	32.8		
362120	Integral horsepower electric motors and generators (1 hp. and over).....	..do.....	(D)	(D)		
260091	Paper and paperboard containers.....		(X)	30.2	(X)	22.6
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	373.7	(X)	<sup>1</sup> 275.4
976000	Materials, components, containers, and supplies consumed, n.s.k. <sup>3</sup>		(X)	50.3	(X)	53.2
	INDUSTRY 3635.--HOUSEHOLD VACUUM CLEANERS					
	Materials, components, parts, supplies, and containers, total.		(X)	<sup>1</sup> 167.6	(X)	105.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	2.2	.7	1.3	.3
331012	Sheet and strip.....	..do.....	33.8	8.3	27.2	5.0
331015	Structural shapes.....	..do.....	-	-	-	-
331017	Wire and wire products.....	..do.....	(NA)	1.1	1.1	.3
331019	All other carbon steel mill shapes and forms.....	..do.....	5.1	1.7	1.7	.8
	Alloy steel, except stainless:					
331021	Bar and bar shapes.....	..do.....	}	1.2	1.1	(NA)
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....				
331050	All other stainless steel mill shapes and forms.....	..do.....				.7
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	3.5	3.0	(NA)	2.6
335791	Aluminum content.....	Million lb....	(NA)	(X)	(NA)	(X)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3635.--HOUSEHOLD VACUUM CLEANERS--Continued					
	Materials, components, parts, supplies, and containers--Con.					
	Mill shapes and forms, except castings:					
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	2.3	2.0	1.9	1.7
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	do.....	(NA)	1.4	(NA)	.9
335143	Plate, sheet, and strip, including military cups and discs....	do.....				
335152	Pipe and tube.....	do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	Million lb....	1.2	.9	.7	.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	do.....	(NA)	2.8	(NA)	2.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	do.....				
999808	Aluminum and aluminum-base alloy scrap.....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
346901	Metal stampings.....	do.....	(D)	(D)	(NA)	(NA)
387316	Timing mechanisms.....	1,000 units...	(D)	(D)	(NA)	(NA)
	Castings (rough and semifinished):					
332011	Iron (gray and malleable).....	1,000 s. tons.	(D)	(D)	-	-
336100	Aluminum and aluminum-base alloy.....	Million lb....	14.4	12.3	7.1	6.4
	Electric motors and generators (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(D)	(D)
362115	Other fractional horsepower electric motors (excluding timing motors).....	do.....	1,534.3	6.8	914.6	5.2
362120	Integral horsepower electric motors and generators (1 hp. and over).....	do.....	76.6	.8	(D)	(D)
260091	Paper and paperboard containers.....		(X)	9.6	(X)	6.4
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	<sup>1</sup> 106.1	(X)	<sup>1</sup> 67.9
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>3</sup> .....		(X)	2.0	(X)	5.2
	INDUSTRY 3636.--SEWING MACHINES					
	Materials, components, parts, containers, and supplies, total.		(X)	<sup>1</sup> 25.0	(X)	22.3
	Mill shapes and forms, except casting:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	2.6	(NA)	2.0
331012	Strip and sheet.....	do.....				
331013	Plates.....	do.....				
331015	Structural shapes.....	do.....				
331017	Wire and wire products.....	do.....				
331019	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	do.....	(NA)	2.6	(NA)	2.0
331029	All other alloy steel mill shapes and forms.....	do.....				
	Stainless steel:					
331033	Sheet and strip.....	do.....	(NA)	2.6	(NA)	2.0
331050	All other stainless steel mill shapes and forms.....	do.....				
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	(NA)	(NA)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	do.....	(D)	(D)	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	do.....	(D)	(D)	(D)	(D)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	do.....			-	-
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	do.....			(D)	(D)
	Castings (rough and semifinished):					
332011	Iron (gray and malleable).....	1,000 s. tons.	8.1	1.9	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	.1	.1	(D)	(D)
346901	Metal stampings.....	1,000 s. tons.	(D)	(D)	(NA)	(NA)
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....		-	-	(D)	(D)
362115	Other fractional horsepower electric motors (exclude timing motors).....	1,000 units...	(D)	(D)	(D)	(D)
362120	Integral horsepower electric motors and generators (1 hp. and over).....	do.....	(D)	(D)	(NA)	(NA)
260091	Paper and paperboard containers.....		(X)	.4	-	-
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	12.7	(X)	<sup>1</sup> 15.0
976000	Materials, parts, containers, and supplies consumed, n.s.k. <sup>3</sup> .....		(X)	3.3	(X)	5.3

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3639.--HOUSEHOLD APPLIANCES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 346.9	(X)	250.4
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bar and bar shapes.....	1,000 s. tons.	( <sup>4</sup> )	( <sup>4</sup> )	1.3	.3
331012	Sheet and strip.....	do.....	292.8	55.0	293.3	41.2
331013	Plates.....	do.....	416.9	45.6	9.4	1.3
331015	Structural shapes.....	do.....			20.0	6.3
331017	Wire and wire products.....	do.....				
331019	All other carbon steel mill shapes and forms.....	do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	do.....	12.1	15.2	4.3	4.6
331029	All other alloy steel mill shapes and forms.....	do.....				
	Stainless steel:					
331033	Sheet and strip.....	do.....				
331050	All other stainless steel mill shapes and forms.....	do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	1.3	2.2	1.9	1.8
335791	Aluminum content.....	Million lb....	(NA)	(X)	(NA)	(X)
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	do.....	(Z)	(Z)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	do.....	.4	.5	3.5	3.2
335143	Plate, sheet, and strip including military cups and discs....	do.....				
335152	Pipe and tube.....	do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	do.....	.2	.1	1.5	.8
335405	Extruded shapes, including rod, bar, pipe, tube, etc.....	do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod, and bar, powder, welded tubing, etc.).....	do.....				
999808	Aluminum and aluminum-base scrap.....	1,000 s. tons.	-	-	(D)	(D)
346901	Metal stampings.....	do.....	10.0	6.3	(NA)	(NA)
387316	Timing mechanisms.....	1,000 units...	(D)	(D)	(NA)	(NA)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	do.....	4.4	3.4	8.8	4.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	3.4	2.2	4.5	2.6
	Electric motors and generators: <sup>2</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	2,023.3	4.9
362115	Other fractional horsepower electric motors (excluding timing motors).....	do.....	3,310.7	20.1	2,151.0	20.1
362120	Integral horsepower electric motors and generators (1 hp. and over).....	do.....	5.4	.4	10.6	.5
260091	Paper and paperboard containers.....		(X)	10.4	(X)	9.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	164.5	(X)	<sup>1</sup> 108.4
976000	Materials, supplies, components, etc., n.s.k. <sup>3</sup> .....		(X)	47.3	(X)	38.8

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(<sup>2</sup>) Less than half of the unit of measurement shown.<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>Excludes quantities produced and consumed in the same establishment.<sup>3</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.<sup>4</sup>Material code 331011 combined with codes 331013 to 331019 to avoid disclosing operations of individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3631.--HOUSEHOLD COOKING EQUIPMENT						
	Purchased fuels and electric energy.....		(X)	6.8	(X)	(NA)
	Purchased fuels, total.....		(X)	3.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	25.8	.3	(NA)	(NA)
331212	Coke.....	..do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	19.9	.1	(NA)	(NA)
291141	Distillate.....	..do.....	1.8	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	18.1	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.8	1.7	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.8	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	331.9	3.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	1.9	-	(NA)	(NA)
INDUSTRY 3632.--HOUSEHOLD REFRIGERATORS AND FREEZERS						
	Purchased fuels and electric energy.....		(X)	10.0	(X)	14.8
	Purchased fuels, total.....		(X)	4.2	(X)	6.5
121005	Coal.....	1,000 s. tons.....	125.7	1.3	285.8	2.0
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	6.6	(Z)	(1)	(1)
291141	Distillate.....	..do.....	5.7	(Z)	(1)	(1)
291151	Residual.....	..do.....	.8	(Z)	(1)	(1)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	4.4	2.5	6.6	3.3
960011	Other fuels.....		(X)	.3	(X)	1.9
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	.3
960012	Purchased electric energy.....	Million kWh.....	543.4	5.8	837.3	8.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(X)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	2.9	-	5.5	-
INDUSTRY 3633.--HOUSEHOLD LAUNDRY EQUIPMENT						
	Purchased fuels and electric energy.....		(X)	8.5	(X)	(NA)
	Purchased fuels, total.....		(X)	3.6	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	46.3	.4	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	35.6	.1	(NA)	(NA)
291141	Distillate.....	..do.....	35.6	.2	(NA)	(NA)
291151	Residual.....	..do.....	-	-	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	5.4	2.9	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	450.2	4.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	2.6	-	(NA)	(NA)
INDUSTRY 3634.--ELECTRIC HOUSEWARES AND FANS						
	Purchased fuels and electric energy.....		(X)	10.5	(X)	(NA)
	Purchased fuels, total.....		(X)	3.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	128.7	.6	(NA)	(NA)
291141	Distillate.....	..do.....	49.6	.2	(NA)	(NA)
291151	Residual.....	..do.....	79.1	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.9	1.7	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.0	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	547.5	7.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	2.2	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3635.--HOUSEHOLD VACUUM CLEANERS						
	Purchased fuels and electric energy.....		(X)	2.5	(X)	(NA)
	Purchased fuels, total.....		(X)	.9	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	40.1	.1	(NA)	(NA)
291141	Distillate.....	..do.....	5.8	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	34.3	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.0	.6	(NA)	(NA)
960011	Other fuels.....		(X)	-	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	131.4	1.6	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.5	-	(NA)	(NA)
INDUSTRY 3636.--SEWING MACHINES						
	Purchased fuels and electric energy.....		(X)	1.4	(X)	(NA)
	Purchased fuels, total.....		(X)	.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	71.7	.3	(NA)	(NA)
291141	Distillate.....	..do.....	1.4	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	70.3	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.1	.1	(NA)	(NA)
960011	Other fuels.....		(X)	-	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	64.5	.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.3	-	(NA)	(NA)
INDUSTRY 3639.--HOUSEHOLD APPLIANCES, N.E.C.						
	Purchased fuels and electric energy.....		(X)	4.8	(X)	(NA)
	Purchased fuels, total.....		(X)	2.4	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	15.9	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	44.0	.2	(NA)	(NA)
291141	Distillate.....	..do.....	40.0	.2	(NA)	(NA)
291151	Residual.....	..do.....	4.0	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.5	1.4	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	203.2	2.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimate did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.



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# Electric Lighting and Wiring Equipment

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# EXPLANATORY TEXT

## ELECTRIC LIGHTING AND WIRING EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3641—Electric Lamps
- 3643—Current-Carrying Wiring Devices
- 3644—Noncurrent-Carrying Wiring Devices
- 3645—Residential Electric Lighting Fixtures\*
- 3646—Commercial, Industrial, and Institutional Electric Lighting Fixtures\*
- 3647—Vehicular Lighting Equipment
- 3648—Lighting Equipment, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3641.—ELECTRIC LAMPS

This industry comprises establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources.

Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229 (Pressed and Blown Glass, N.E.C.); and lamp components, such as supports, filaments, lead-in wire, and cold cathode fluorescent lamp electrodes, in industry 3699 (Electrical Equipment and Sup-

\*Note that the "short title" for this industry is used throughout the report.

plies, N.E.C.). For a detailed list of products of industry 3641, refer to table 6A, product codes 36410 26 to 36410 63.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electric Lamps Industry in 1972 totaled \$1,088 million. This included shipments of electric lamps (primary products) valued at \$1,025 million, shipments of other products (secondary products) valued at \$55 million, and miscellaneous receipts (mainly value of resales) of \$8 million.

Shipments of electric lamps (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of electric lamps (primary products) from establishments classified in industry 3641 in 1972 represented 96 percent (coverage ratio) of these products valued at \$1,069 million shipped by all industries. In 1967, the coverage ratio was 95 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3641, these establishments accounted for less than 1 percent of value of shipments.

## INDUSTRY 3643.—CURRENT-CARRYING WIRING DEVICES

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley-line materials, rail bonds for both propulsion and signal circuits, lightning arresters, and other lightning protective equipment. For a detailed list of products of industry 3643, refer to table 6A, product codes 36430 04 to 36430 99.



The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Current-Carrying Wiring Devices Industry in 1972 totaled \$1,217 million. This included shipments of current-carrying wiring devices (primary products) valued at \$972 million, shipments of other products (secondary products) valued at \$203 million, and miscellaneous receipts (mainly value of resales) of \$42 million.

Shipments of current-carrying wiring devices (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 78 percent.

Shipments of current-carrying wiring devices (primary products) from establishments classified in industry 3643 in 1972 represented 81 percent (coverage ratio) of these products valued at \$1,207 million shipped by all industries. In 1967, the coverage ratio was 78 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3643, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3644.—NONCURRENT-CARRYING WIRING DEVICES**

This industry comprises establishments primarily engaged in manufacturing noncurrent-carrying wiring devices. Important products of this industry include conduits and fittings; electrical insulators and insulation materials, except porcelain insulators (industry 3264, Porcelain Electrical Supplies) and glass insulators (industry 3229, Pressed and Blown Glass, N.E.C.); outlet, switch and fuse boxes; and pole-line hardware. For a detailed list of products of industry 3644, refer to table 6A, product codes 36441 12 to 36443 38.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Noncurrent-Carrying Wiring Devices Industry in 1972 totaled \$886 million. This included shipments of noncurrent-carrying wiring devices (primary products) valued at \$648 million, shipments of other products (secondary products) valued at \$179 million, and miscellaneous receipts (mainly value of resales) of \$60 million.

Shipments of noncurrent-carrying wiring devices (primary products) in 1972 represented 78 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 74 percent.

Shipments of noncurrent-carrying wiring devices (primary products) from establishments classified in industry 3644 in 1972 represented 78 percent (coverage ratio) of these products valued at \$833 million shipped by all industries. In 1967, the coverage ratio was 82 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3644, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3645.—RESIDENTIAL LIGHTING FIXTURES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing residential electric lighting fixtures and equipment, fixed or portable.

Establishments primarily engaged in manufacturing glassware for lighting fixtures are classified in SIC Major Group 32, Stone, Clay, and Glass Products; electric light bulbs, tubes, and related light sources in industry 3641; lamp shades, except glass and metal, in industry 3999 (Manufacturing Industries, N.E.C.); and nonelectric fixtures, portable electric flashlights, lanterns, and similar lamps in industry 3648. For a detailed list of products of industry 3645, refer to table 6A, product codes 36451 11 to 36457 71.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Residential Lighting Fixtures Industry is included for the first time in the census of manufactures for 1972. No comparable figures are available for 1967.



Value of shipments and other receipts of the Residential Lighting Fixtures Industry in 1972 totaled \$765 million. This included shipments of residential lighting fixtures (primary products) valued at \$695 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly value of resales) of \$47 million.

Shipments of residential lighting fixtures (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of residential lighting fixtures (primary products) from establishments classified in industry 3645 in 1972 represented 93 percent (coverage ratio) of these products valued at \$747 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3645, these establishments accounted for 15 percent of value of shipments.

#### **INDUSTRY 3646.—COMMERCIAL LIGHTING FIXTURES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32, Stone, Clay, and Glass Products; residential lighting fixtures in industry 3645; and vehicular lighting fixtures in industry 3647. For a detailed list of products of industry 3646, refer to table 6A, product codes 36462 11 to 36463 63.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Commercial Lighting Fixtures Industry is included for the first time in the census of manufactures for 1972. No comparable figures are available for 1967.

Value of shipments and other receipts of the Commercial Lighting Fixtures Industry in 1972 totaled \$717 million. This included shipments of commercial lighting fixtures (primary products) valued at \$639 million, shipments of other products (secondary products) valued at \$68 million, and miscellaneous receipts (mainly value of resales) of \$10 million.

Shipments of commercial lighting fixtures (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of commercial lighting fixtures (primary products) from establishments classified in industry 3646 in 1972 represented 91 percent (coverage ratio) of these products valued at \$702 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3646, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3647.—VEHICULAR LIGHTING EQUIPMENT**

This industry comprises establishments primarily engaged in manufacturing vehicular lighting equipment. For a detailed list of products of industry 3647, refer to table 6A, product codes 36470 01 to 36470 65.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Vehicular Lighting Equipment Industry is included for the first time in the census of manufactures for 1972.

Value of shipments and other receipts of the Vehicular Lighting Equipment Industry in 1972 totaled \$498 million. This included shipments of vehicular lighting equipment (primary products) valued at \$336 million, shipments of other products (secondary products) valued at \$157 million, and miscellaneous receipts (mainly value of resales) of \$5 million.

Shipments of vehicular lighting equipment (primary products) in 1972 represented 68 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of vehicular lighting equipment (primary products) from establishments classified in industry 3647 in 1972 represented 94 percent (coverage ratio) of these products valued at \$358 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3647, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3648.—LIGHTING EQUIPMENT, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing lighting fixtures and equipment, electric and nonelectric, not elsewhere classified, including flashlights and similar portable lamps, searchlights, ultraviolet lamp fixtures, and infrared lamp fixtures. Establishments primarily engaged in manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641, and those producing glassware for lighting fixtures are classified in SIC Major Group 32, Stone, Clay, and Glass Products. For a detailed list of products of industry 3648, refer to table 6A, product codes 36485 11 to 36489 91.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Lighting Equipment, N.E.C., Industry is included for the first time in the census of manufactures for 1972. No comparable figures are available for 1967.

Value of shipments and other receipts of the Lighting Equipment, N.E.C., Industry in 1972 totaled \$466 million. This included shipments of lighting equipment, n.e.c., (primary products) valued at \$385 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts (mainly value of resales) of \$20 million.

Shipments of lighting equipment, n.e.c., (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of lighting equipment, n.e.c., (primary products) from establishments classified in industry 3648 in 1972 represented 79 percent (coverage ratio) of these products valued at \$488 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3648, these establishments accounted for 5.5 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3641.--ELECTRIC LAMPS															
1972 Census.....	142	71	31.3	237.8	27.0	52.0	185.0	720.4	362.8	1,088.2	30.7	(NA)	108.0	95	96
1971 ASM.....	(NA)	(NA)	30.5	216.9	26.3	50.5	169.4	648.5	317.4	961.9	33.7	425.5	111.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	32.5	216.2	28.2	52.7	170.9	591.2	311.1	891.6	32.0	405.0	106.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	31.8	192.8	27.7	51.1	151.2	549.9	294.6	842.5	31.3	316.0	96.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	31.1	188.4	27.1	52.9	149.7	585.6	283.3	863.9	37.9	300.6	91.4	(NA)	(NA)
1967 Census.....	106	65	29.5	169.9	25.8	49.9	136.0	533.4	252.6	781.8	48.2	272.2	83.7	94	95
1966 ASM.....	(NA)	(NA)	27.7	160.1	24.3	48.2	129.4	494.8	250.2	742.0	24.1	(NA)	81.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	25.8	144.3	22.5	44.4	117.0	443.3	233.3	672.9	30.1	(NA)	76.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	24.2	131.6	21.0	41.3	105.1	407.7	209.5	615.4	18.1	157.3	69.6	(NA)	(NA)
1963 Census.....	81	50	23.4	122.7	20.5	40.3	99.5	362.2	207.0	574.5	17.0	144.1	63.7	95	96
1962 ASM.....	(NA)	(NA)	22.6	116.3	18.8	38.8	92.6	367.1	184.9	544.9	12.7	132.6	68.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.6	107.7	17.6	36.0	84.0	336.2	168.0	513.2	10.7	(NA)	59.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	23.9	114.1	19.7	39.5	89.9	355.7	169.2	517.4	10.5	(NA)	69.1	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	22.8	109.9	18.8	39.6	87.2	339.2	165.8	497.3	10.6	(NA)	61.1	(NA)	(NA)
1958 Census.....	66	52	21.5	95.3	18.2	35.1	73.6	270.5	136.2	417.5	8.3	(NA)	51.0	94	98
INDUSTRY 3643.--CURRENT-CARRYING WIRING DEVICES															
1972 Census.....	401	210	48.4	369.4	37.3	72.8	235.3	766.9	477.4	1,216.6	52.2	(NA)	251.7	83	81
1971 ASM.....	(NA)	(NA)	39.8	286.1	30.0	57.7	183.5	613.7	377.1	986.7	27.8	285.9	219.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	44.1	292.8	33.8	65.6	193.6	609.3	408.5	1,008.8	28.7	285.5	213.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	43.7	280.4	34.3	67.7	186.4	632.3	389.3	1,008.2	28.0	247.4	197.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	42.2	257.9	32.9	64.8	168.8	546.9	365.2	910.9	26.8	242.5	170.1	(NA)	(NA)
1967 Census.....	375	185	40.1	234.4	30.5	60.1	151.3	507.4	330.0	837.0	29.8	231.5	162.5	78	78
1966 ASM.....	(NA)	(NA)	39.4	218.0	31.3	60.8	145.5	497.6	339.9	811.3	34.2	(NA)	152.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	36.8	194.7	28.7	56.5	129.2	432.8	295.9	708.2	25.9	(NA)	130.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	35.9	183.9	27.2	53.2	118.7	401.4	280.9	673.2	16.8	150.9	133.7	(NA)	(NA)
1963 Census.....	449	180	35.4	175.2	27.2	53.5	115.1	355.6	257.2	661.0	14.1	141.5	99.5	80	83
1962 ASM.....	(NA)	(NA)	40.6	189.6	32.0	63.1	125.8	386.7	269.1	649.8	14.9	128.6	105.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	41.5	196.0	31.8	62.8	124.9	388.5	267.3	639.5	15.5	(NA)	102.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	41.9	187.3	32.3	62.8	115.3	371.4	256.5	625.6	18.0	(NA)	96.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	41.3	179.2	33.0	63.6	118.5	371.8	253.3	611.1	14.0	(NA)	110.5	(NA)	(NA)
1958 Census.....	423	161	35.7	156.0	26.6	51.6	100.2	300.8	197.9	501.3	9.6	(NA)	84.5	87	79
INDUSTRY 3644.--NONCURRENT-CARRYING WIRING DEVICES															
1972 Census.....	179	117	25.7	217.0	19.3	37.7	147.0	490.8	400.8	886.4	25.2	(NA)	186.8	78	78
1971 ASM.....	(NA)	(NA)	23.8	186.9	17.4	34.0	122.2	434.7	338.3	772.0	26.7	245.6	167.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	26.5	211.5	19.4	38.8	131.5	457.0	349.7	790.5	28.2	250.0	184.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	27.8	210.9	20.1	40.1	132.4	468.3	360.1	812.1	*29.8	237.2	171.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	24.1	178.5	17.6	36.5	116.8	406.0	307.6	709.5	*22.4	208.4	150.3	(NA)	(NA)
1967 Census.....	174	105	22.9	158.1	16.8	33.5	102.0	344.7	297.4	637.9	20.2	197.9	134.6	74	82
1966 ASM.....	(NA)	(NA)	24.3	170.6	18.1	37.2	114.0	360.3	311.5	673.9	*20.9	(NA)	139.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	21.5	143.2	16.0	33.2	95.8	326.2	285.8	591.8	15.7	(NA)	136.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	20.6	132.1	15.4	31.4	87.5	291.0	240.6	620.2	10.3	154.7	110.5	(NA)	(NA)
1963 Census.....	182	103	20.3	123.6	14.8	29.7	79.6	253.9	226.5	479.0	7.9	145.4	101.5	77	80
1962 ASM.....	(NA)	(NA)	23.0	135.0	15.9	32.9	86.1	255.9	229.2	487.3	11.1	139.8	99.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	23.2	134.1	15.9	33.1	85.9	257.5	224.6	472.8	12.9	(NA)	102.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	22.4	122.0	15.3	31.3	79.1	246.8	193.5	430.8	10.7	(NA)	89.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	23.2	126.3	16.1	34.4	84.0	264.7	213.3	469.8	10.1	(NA)	83.6	(NA)	(NA)
1958 Census.....	150	93	19.7	101.4	14.6	28.7	67.8	214.6	193.0	413.8	10.0	(NA)	80.9	78	89
INDUSTRY 3645.--RESIDENTIAL LIGHTING FIXTURES <sup>2</sup>															
1972 Census.....	701	278	26.4	189.1	21.0	40.6	120.6	388.8	385.5	765.4	13.7	(NA)	136.9	97	93
INDUSTRY 3646.--COMMERCIAL LIGHTING FIXTURES <sup>3</sup>															
1972 Census.....	235	139	18.7	147.9	14.0	26.9	93.0	349.7	374.2	717.4	13.7	(NA)	127.5	90	91
INDUSTRY 3647.--VEHICULAR LIGHTING EQUIPMENT <sup>4</sup>															
1972 Census.....	46	30	13.5	141.1	10.6	21.3	101.5	298.3	204.7	497.8	7.2	(NA)	49.9	68	94
1967 Census <sup>4</sup> .....	36	(NA)	11.8	84.9	9.3	18.9	60.2	167.1	113.3	279.9	7.6	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>4</sup> .....	24	(NA)	9.0	57.7	7.2	14.8	42.0	111.3	72.5	181.3	6.3	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>4</sup> .....	31	(NA)	8.4	41.5	6.7	13.2	30.0	66.2	58.2	130.0	2.6	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3648.--LIGHTING EQUIPMENT, N.E.C. <sup>5</sup>															
1972 Census.....	190	95	12.7	107.9	9.2	18.4	63.1	254.3	219.4	466.5	16.6	(NA)	85.5	86	79

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3642.--LIGHTING FIXTURES (1967 SIC BASIS)															
1972 Census.....	1,172	542	71.3	586.0	54.8	107.2	378.2	1,291.1	1,183.8	2,447.1	512	(NA)	399.8	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	67.8	513.8	51.9	99.3	333.5	1,111.1	997.7	2,111.7	370	523.0	356.4	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	68.8	490.3	52.0	101.6	313.6	1,053.2	951.9	1,996.3	425	514.7	341.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	71.9	485.7	55.2	108.6	314.0	1,029.4	956.0	1,987.4	511	467.9	331.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	66.6	423.6	51.2	102.2	275.7	906.6	832.3	1,730.8	470	422.7	275.3	(NA)	(NA)
1967 Census.....	1,213	524	64.6	388.0	50.0	98.8	252.6	828.6	769.3	1,593.6	327	392.0	246.5	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	64.7	375.6	50.9	100.0	248.0	782.4	848.5	1,544.1	402	(NA)	251.4	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	61.6	353.4	48.6	97.5	237.2	742.7	699.7	1,425.4	393	(NA)	190.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	56.9	313.5	44.1	79.2	204.8	621.9	635.9	1,250.7	280	266.8	170.2	(NA)	(NA)
1963 Census.....	1,239	480	53.9	288.1	42.1	83.3	193.5	587.8	578.1	1,159.5	231	244.0	157.1	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	51.9	272.2	41.1	80.1	180.3	548.7	566.9	1,107.3	152	211.0	144.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	49.8	249.1	39.3	75.7	165.0	476.8	506.7	984.2	122	(NA)	132.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	51.8	249.2	41.0	80.6	167.2	468.0	516.3	978.0	152	(NA)	132.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	51.2	244.4	40.5	80.0	162.8	452.3	497.6	946.1	150	(NA)	127.8	(NA)	(NA)
1958 Census.....	1,181	431	47.3	215.8	36.4	71.6	143.8	397.4	419.9	826.6	144	(NA)	116.3	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3641	1972 industry 3643	1972 industry 3644	1972 industry 3645	1972 industry 3646	1972 industry 3647	1972 industry 3648	1967 industry 3642
1972.....	102	366	149	665	205	45	172	(NA)
1967.....	72	351	158	(NA)	(NA)	(NA)	(NA)	1,148
1963.....	54	431	168	(NA)	(NA)	(NA)	(NA)	1,203

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Industry 3645, Residential Lighting Fixtures, is published as a separate industry for the first time in 1972. It was part of industry 3642 in 1967.

<sup>3</sup>Industry 3646, Commercial Lighting Fixtures, is published as a separate industry for the first time in 1972. It was part of industry 3642 in 1967.

<sup>4</sup>Industry 3647, Vehicular Lighting Equipment, was not a separate industry in the 1958, 1963, or 1967 census of manufactures but was part of SIC 3642, Lighting Fixtures. However, data were published for those years for plants classified in SIC 3642 specializing in the production of vehicular lighting equipment. These data are published in table 8 of Census of Manufactures, Volume II, for the respective years.

<sup>5</sup>Industry 3648, Lighting Equipment, N.E.C., is published as a separate industry for the first time in 1972. It was part of industry 3642 in 1967.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3641.--ELECTRIC LAMPS											
1972 Census.....	7,597	(NA)	86	1,925	3.56	.33	.55	(NA)	23,015	33	13.85
1971 ASM.....	7,111	13,950	86	1,920	3.35	.33	.56	.44	21,262	33	12.84
1970 ASM.....	6,652	12,460	87	1,869	3.24	.35	.59	.45	18,191	37	11.22
1969 ASM.....	6,063	9,940	87	1,845	2.96	.35	.58	.38	17,292	35	10.76
1968 ASM.....	6,058	9,670	87	1,952	2.83	.33	.55	.35	18,830	32	11.07
1967 Census.....	5,759	9,230	87	1,934	2.73	.32	.54	.35	18,081	32	10.69
1966 ASM.....	5,774	(NA)	88	1,985	2.69	.34	.55	(NA)	17,847	32	10.27
1965 ASM.....	5,596	(NA)	87	1,976	2.64	.35	.56	(NA)	17,188	33	9.98
1964 ASM.....	5,438	6,500	87	1,966	2.55	.34	.55	.26	16,847	32	9.88
1963 Census.....	5,244	6,160	87	1,967	2.47	.36	.57	.25	15,477	34	9.00
1962 ASM.....	5,153	5,870	83	2,062	2.39	.34	.55	.24	16,256	32	9.46
1961 ASM.....	4,992	(NA)	82	2,045	2.34	.33	.54	(NA)	15,586	32	9.34
1960 ASM.....	4,769	(NA)	82	2,002	2.28	.33	.55	(NA)	14,870	32	9.02
1959 ASM.....	4,808	(NA)	82	2,109	2.20	.33	.55	(NA)	14,844	32	8.56
1958 Census.....	4,433	(NA)	85	1,926	2.10	.33	.55	(NA)	12,584	35	7.70
INDUSTRY 3643.--CURRENT-CARRYING WIRING DEVICES											
1972 Census.....	7,586	(NA)	77	1,955	3.21	.39	.70	(NA)	15,688	48	10.39
1971 ASM.....	7,188	7,180	75	1,923	3.18	.38	.67	.28	15,420	47	10.64
1970 ASM.....	6,639	6,470	77	1,941	2.95	.41	.70	.28	13,816	48	9.29
1969 ASM.....	6,416	5,660	78	1,974	2.75	.39	.66	.25	14,469	44	9.34
1968 ASM.....	6,111	5,750	78	1,970	2.61	.40	.68	.27	12,960	47	8.44
1967 Census.....	5,845	5,770	76	1,970	2.52	.39	.67	.28	12,653	46	8.44
1966 ASM.....	5,528	(NA)	79	1,943	2.39	.42	.69	(NA)	12,617	44	8.18
1965 ASM.....	5,293	(NA)	78	1,970	2.29	.42	.69	(NA)	11,764	45	7.66
1964 ASM.....	5,127	4,200	76	1,955	2.23	.42	.69	.22	11,192	46	7.54
1963 Census.....	4,945	4,000	77	1,963	2.15	.42	.70	.88	10,040	49	6.65
1962 ASM.....	4,666	3,170	79	1,969	2.00	.41	.71	.20	9,518	49	6.13
1961 ASM.....	4,719	(NA)	77	1,974	1.99	.42	.72	(NA)	9,353	50	6.18
1960 ASM.....	4,465	(NA)	77	1,946	1.84	.41	.71	(NA)	8,856	50	5.92
1959 ASM.....	4,335	(NA)	80	1,928	1.86	.41	.71	(NA)	8,993	48	5.85
1958 Census.....	4,370	(NA)	74	1,944	1.94	.39	.71	(NA)	8,429	52	5.83
INDUSTRY 3644.--NONCURRENT-CARRYING WIRING DEVICES											
1972 Census.....	8,443	(NA)	75	1,953	3.90	.45	.70	(NA)	19,097	44	13.02
1971 ASM.....	7,853	10,310	73	1,954	3.59	.44	.68	.31	18,265	43	12.79
1970 ASM.....	7,981	9,430	73	2,000	3.39	.44	.71	.31	17,245	46	11.78
1969 ASM.....	7,586	8,530	72	1,995	3.30	.44	.70	.29	16,845	45	11.68
1968 ASM.....	7,407	8,650	73	2,074	3.20	.43	.69	.29	16,846	44	11.12
1967 Census.....	6,904	8,640	73	1,994	3.04	.47	.71	.31	15,052	46	10.29
1966 ASM.....	7,032	(NA)	75	2,056	3.06	.46	.72	(NA)	14,851	47	9.68
1965 ASM.....	6,664	(NA)	74	2,079	2.89	.48	.72	(NA)	15,174	44	9.83
1964 ASM.....	6,402	7,510	75	2,039	2.79	.46	.72	.30	14,104	45	9.27
1963 Census.....	6,090	7,160	73	2,012	2.68	.47	.73	.30	12,514	49	8.55
1962 ASM.....	5,864	6,080	69	2,070	2.62	.47	.75	.29	11,118	53	7.78
1961 ASM.....	5,778	(NA)	69	2,076	2.60	.48	.76	(NA)	11,096	52	7.79
1960 ASM.....	5,456	(NA)	68	2,046	2.53	.45	.73	(NA)	11,042	49	7.89
1959 ASM.....	5,450	(NA)	69	2,144	2.44	.45	.72	(NA)	11,427	48	7.69
1958 Census.....	5,141	(NA)	74	1,972	2.36	.47	.71	(NA)	10,882	47	7.47
INDUSTRY 3645.--RESIDENTIAL LIGHTING FIXTURES											
1972 Census.....	7,162	(NA)	80	1,933	2.97	.50	.75	(NA)	14,727	49	9.58
INDUSTRY 3646.--COMMERCIAL LIGHTING FIXTURES											
1972 Census.....	7,909	(NA)	75	1,921	3.46	.52	.77	(NA)	18,700	42	13.00
INDUSTRY 3647.--VEHICULAR LIGHTING EQUIPMENT											
1972 Census.....	10,451	(NA)	79	2,009	4.77	.41	.69	(NA)	22,096	47	14.00
INDUSTRY 3648.--LIGHTING EQUIPMENT, N.E.C.											
1972 Census.....	8,496	(NA)	72	2,000	3.43	.47	.70	(NA)	20,023	42	13.82

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3645.--Residential Lighting Fixtures.....	701	278	26.4	388.8	765.4	(X)	(X)	(X)	(X)	(X)
Old industry 3642.--Lighting Fixtures.....	701	278	26.4	388.8	765.4	1,172	542	71.3	1,291.1	2,447.1
New industry 3646.--Commercial Lighting Fixtures.....	235	139	18.7	349.7	717.4	(X)	(X)	(X)	(X)	(X)
Old industry 3642.--Lighting Fixtures.....	235	139	18.7	349.7	717.4	1,172	542	71.3	1,291.1	2,447.1
New industry 3647.--Vehicular Lighting Equipment.....	46	30	13.5	298.3	497.8	(X)	(X)	(X)	(X)	(X)
Old industry 3642.--Lighting Fixtures.....	46	30	13.5	298.3	497.8	1,172	542	71.3	1,291.1	2,447.1
New industry 3648.--Lighting Equipment, N.E.C.....	190	95	12.7	254.3	466.5	(X)	(X)	(X)	(X)	(X)
Old industry 3642.--Lighting Fixtures.....	190	95	12.7	254.3	466.5	1,172	542	71.3	1,291.1	2,447.1

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>2</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3641-- ELECTRIC LAMPS													
UNITED STATES. . . . .	142	71	31.3	237.8	27.0	52.0	185.0	720.4	362.9	1 088.2	30.7	29.5	533.1 <sup>1</sup>
NORTHEAST REGION . . . . .	64	33	13.2	106.6	10.8	21.2	74.8	250.9	148.3	402.9	11.6	12.7	208.2
NEW ENGLAND DIVISION . . . . .	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW HAMPSHIRE. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS. . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION . . . . .	55	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK. . . . . E1	19	7	1.0	5.9	.9	1.4	4.2	14.5	11.4	26.1	(D)	.8	6.8
NEW JERSEY . . . . .	17	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA. . . . .	19	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	31	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	25	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS . . . . .	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.2
WEST NORTH CENTRAL DIVISION. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	27	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH ATLANTIC DIVISION. . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST VIRGINIA. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA . . . . .	1	1	98	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY . . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ALABAMA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ARKANSAS . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION. . . . . F2	20	5	.4	2.5	.3	.5	2.0	5.2	4.8	9.3	.7	.2	2.4
PACIFIC DIVISION . . . . . E1	17	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA . . . . . E1	17	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3643-- CURRENT-CARRYING WIRING DEVICES													
UNITED STATES. . . . .	401	210	48.4	369.4	37.3	72.8	235.3	766.9	477.4	1 216.6	52.2	40.1	507.4
NORTHEAST REGION . . . . .	181	96	27.2	206.3	21.5	41.1	136.6	414.8	288.7	691.5	29.2	26.0	318.5
NEW ENGLAND DIVISION . . . . .	61	40	12.8	101.7	10.1	19.0	69.0	207.7	122.1	323.3	(D)	13.5	173.2
MAINE. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	25	18	2.9	23.8	2.2	4.4	14.6	50.0	27.9	78.4	2.3	5.0	67.8
RHODE ISLAND. . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	26	15	6.2	53.9	4.9	9.7	36.8	112.8	55.5	161.2	2.9	FF	(D)
MIDDLE ATLANTIC DIVISION . . . . .	120	56	14.4	104.6	11.4	22.1	67.6	207.1	166.6	368.2	14.3	12.5	145.4
NEW YORK. . . . .	44	19	6.8	48.2	5.5	10.5	32.2	97.1	70.0	171.2	8.5	6.8	59.8
NEW JERSEY. . . . .	39	13	3.6	24.5	2.8	5.5	15.7	39.3	37.3	75.3	1.6	3.0	36.5
PENNSYLVANIA. . . . .	37	24	4.0	32.0	3.1	6.1	19.7	70.3	53.3	121.7	4.1	2.6	49.0
NORTH CENTRAL REGION . . . . .	113	66	12.3	94.8	9.0	17.9	56.9	202.4	118.6	316.3	13.1	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	93	55	10.7	82.9	7.9	15.7	49.8	175.8	98.7	271.0	11.1	FF	(D)
OHIO. . . . .	E1 31	22	2.3	17.1	1.9	3.7	12.0	39.3	25.0	65.0	3.4	EE	(U)
INDIANA. . . . .	17	9	1.4	9.3	1.2	2.4	6.2	19.2	13.2	32.2	1.2	1.8	20.4
ILLINOIS. . . . .	33	20	6.6	53.9	4.5	8.9	30.1	112.3	56.7	165.0	6.3	5.4	77.2
MICHIGAN. . . . .	E1 10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	20	11	1.5	11.9	1.1	2.2	7.1	26.6	19.9	45.3	2.0	EE	(U)
MINNESOTA. . . . .	9	3	.3	1.7	.2	.4	1.2	3.4	2.1	5.4	.2	(NA)	(NA)
MISSOURI. . . . .	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION . . . . .	45	28	5.1	38.5	4.1	7.8	24.9	82.6	42.4	121.8	4.6	EE	(U)
SOUTH ATLANTIC DIVISION. . . . .	26	16	3.7	26.4	3.0	5.9	17.5	54.9	31.0	83.4	2.5	EE	(D)
NORTH CAROLINA. . . . .	11	7	2.5	16.2	2.1	4.2	12.6	33.9	19.8	52.0	(D)	CC	(D)
SOUTH CAROLINA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. . . . .	10	6	.6	4.3	.5	1.1	3.1	12.2	5.9	17.5	.3	BB	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TENNESSEE. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	2	1	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	E2 14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.1
TEXAS. . . . .	E2 11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION. . . . .	62	20	3.5	28.9	2.5	4.9	16.1	66.3	27.2	85.5	4.2	1.5	17.2
MOUNTAIN DIVISION. . . . .	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO. . . . .	1	1	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	54	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA. . . . .	50	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3644-- NONCURRENT-CARRYING WIRING DEVICES													
UNITED STATES. . . . .	179	117	25.7	217.0	19.3	37.7	147.0	490.8	400.8	686.4	25.2	22.0	344.7
NORTHEAST REGION . . . . .	60	37	9.1	73.5	6.5	12.3	49.4	173.8	122.4	296.6	8.8	9.6	147.6
NEW ENGLAND DIVISION . . . . .	15	10	1.7	13.3	1.3	2.6	9.1	30.1	17.9	47.0	2.1	EE	(D)
MASSACHUSETTS. . . . .	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CONNECTICUT. . . . .	6	4	1.3	10.6	1.0	2.0	7.4	22.0	12.4	33.9	1.1	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	45	27	7.4	60.2	5.2	9.7	40.3	143.7	104.5	249.6	6.6	FF	(D)
NEW YORK. . . . .	19	13	4.6	32.3	3.3	6.0	24.3	81.3	43.2	122.9	5.3	4.4	65.1
NEW JERSEY. . . . .	9	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA. . . . .	17	13	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION . . . . .	51	36	10.7	95.7	8.1	16.0	64.1	200.9	163.1	360.9	8.6	9.4	133.9
EAST NORTH CENTRAL DIVISION. . . . .	41	29	8.3	72.5	6.4	12.4	50.3	151.4	124.5	272.5	6.1	7.5	106.3
OHIO. . . . .	12	8	2.2	18.7	1.6	3.4	11.9	27.5	21.8	48.8	.7	2.1	24.9
INDIANA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS. . . . .	16	13	4.3	38.3	3.3	6.4	26.7	91.7	64.9	152.8	4.1	4.1	65.7
MICHIGAN. . . . .	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WISCONSIN. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST NORTH CENTRAL DIVISION. . . . .	10	7	2.4	23.1	1.7	3.6	13.8	49.5	38.6	88.4	2.6	2.0	27.6
MINNESOTA. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION . . . . .	34	26	3.9	30.0	3.0	6.1	20.9	76.4	77.5	150.8	4.3	2.6	39.6
SOUTH ATLANTIC DIVISION. . . . .	11	9	1.7	13.3	1.2	2.5	9.0	34.6	36.9	71.4	1.0	1.3	19.5
VIRGINIA. . . . .	E0 1	1	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	14	12	1.5	10.5	1.2	2.4	7.6	27.6	23.4	49.7	1.5	EE	(D)
KENTUCKY. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE. . . . .	4	3	.6	4.0	.5	1.0	2.8	10.4	7.2	17.4	.5	BB	(D)
ALABAMA. . . . .	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
MISSISSIPPI. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	9	5	.8	6.2	.6	1.2	4.4	14.2	17.1	29.6	1.8	AA	(D)
TEXAS. . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION. . . . .	34	18	2.0	17.8	1.6	3.2	12.7	39.6	37.7	78.1	3.5	1.4	23.4
PACIFIC DIVISION . . . . .	32	14	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA. . . . .	30	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3645-- RESIDENTIAL LIGHTING FIXTURES</b>													
UNITED STATES. . . . . E1	701	278	26.4	189.1	21.0	40.6	120.6	368.8	385.5	765.4	13.7	(NA)	(NA)
NORTHEAST REGION. . . . . E1	336	138	12.1	86.1	9.6	18.4	55.4	190.5	179.8	366.3	4.8	(NA)	(NA)
NEW ENGLAND DIVISION. . . . . E3	47	15	1.0	6.7	.8	1.5	4.3	14.5	13.9	28.9	.4	(NA)	(NA)
MASSACHUSETTS. . . . . E2	25	9	.7	4.6	.5	1.0	3.0	9.8	8.9	19.2	.2	(NA)	(NA)
CONNECTICUT. . . . . E5	13	3	.2	1.0	.1	.2	.7	2.7	2.4	5.2	.1	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . . E1	289	123	11.1	79.4	8.8	16.9	51.0	176.0	165.9	337.4	4.4	(NA)	(NA)
NEW YORK. . . . . E2	173	65	4.2	30.0	3.3	6.0	19.0	64.6	65.6	129.5	1.3	(NA)	(NA)
NEW JERSEY. . . . . E2	61	29	2.8	20.1	2.1	4.2	11.8	37.7	38.6	75.8	1.2	(NA)	(NA)
PENNSYLVANIA. . . . . E2	55	29	4.2	29.3	3.4	6.7	20.2	73.6	61.7	132.1	2.0	(NA)	(NA)
NORTH CENTRAL REGION. . . . . E1	137	65	7.0	53.7	5.4	10.4	32.6	48.8	100.2	187.4	4.1	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . . E1	124	57	6.4	50.1	5.0	9.6	30.3	82.3	95.6	176.4	4.0	(NA)	(NA)
OHIO. . . . . E1	22	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . . E1	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . . E2	75	37	3.4	24.7	2.8	5.4	17.0	48.7	53.4	101.3	2.1	(NA)	(NA)
MICHIGAN. . . . . E4	12	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . . E1	5	3	.7	5.7	.5	1.0	3.4	7.8	7.6	15.4	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . . E3	13	8	.5	3.6	.4	.8	2.3	6.5	4.6	11.0	.1	(NA)	(NA)
MISSOURI. . . . . E3	6	6	.4	3.0	.3	.6	1.9	5.3	4.0	9.1	.1	(NA)	(NA)
SOUTH REGION. . . . . E1	90	28	3.3	20.6	2.7	5.3	14.2	45.9	53.5	97.4	2.2	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . . E1	38	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . . E1	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . . E1	6	5	.3	1.7	.2	.4	1.2	3.1	3.9	6.8	.1	(NA)	(NA)
FLORIDA. . . . . E1	21	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . . E1	10	6	1.7	11.4	1.4	2.9	8.3	25.0	31.2	54.6	(D)	(NA)	(NA)
KENTUCKY. . . . . E1	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . . E1	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . . E2	37	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS. . . . . E1	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E4	24	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . . E1	136	47	4.0	28.6	3.3	6.5	18.5	63.5	52.0	114.3	2.6	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	131	47	4.0	28.4	3.2	6.5	18.3	63.1	51.6	113.4	2.6	(NA)	(NA)
CALIFORNIA. . . . . E1	126	45	3.9	27.8	3.2	6.3	18.0	62.4	50.2	111.3	2.5	(NA)	(NA)
<b>3646-- COMMERCIAL LIGHTING FIXTURES</b>													
UNITED STATES. . . . .	235	139	18.7	147.9	14.0	26.9	93.0	349.7	374.2	717.4	13.7	(NA)	(NA)
NORTHEAST REGION. . . . .	90	51	6.2	48.1	4.4	9.2	32.4	108.4	128.6	236.7	3.5	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	76	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . .	38	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY. . . . .	17	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	21	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	61	34	3.7	29.5	2.6	5.0	16.0	84.6	66.7	149.3	2.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	50	26	2.7	21.7	1.9	3.7	11.6	68.6	55.0	121.5	1.9	(NA)	(NA)
OHIO. . . . .	14	11	1.2	9.1	.8	1.6	5.1	39.0	28.7	66.6	.5	(NA)	(NA)
ILLINOIS. . . . .	20	10	1.3	10.4	.9	1.8	5.6	25.5	23.3	48.0	.8	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	11	6	1.0	7.8	.7	1.3	4.2	16.0	11.7	27.8	.3	(NA)	(NA)
MISSOURI. . . . .	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	35	23	5.2	38.0	4.0	7.7	25.3	94.3	118.5	210.3	6.5	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	19	11	2.0	15.9	1.5	2.8	10.0	42.7	59.2	100.6	4.2	(NA)	(NA)
NORTH CAROLINA. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	5	4	.2	1.8	.2	.3	1.2	3.9	2.3	6.2	.2	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	7	6	2.0	14.3	1.5	3.1	10.1	36.4	42.5	78.3	2.0	(NA)	(NA)
TENNESSEE. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. . . . .	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	8	5	.8	5.3	.7	1.2	3.5	9.1	12.0	20.6	.4	(NA)	(NA)
ARKANSAS. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	5	4	.6	3.3	.5	.8	2.3	7.7	10.6	17.6	.3	(NA)	(NA)
WEST REGION. . . . . E1	49	31	3.7	32.3	2.6	4.9	19.3	62.4	60.5	121.2	1.3	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	5	3	.4	3.0	.3	.6	1.9	7.2	6.6	13.8	(D)	(NA)	(NA)
COLORADO. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	44	26	3.3	29.3	2.3	4.3	17.4	55.1	53.9	107.4	.9	(NA)	(NA)
WASHINGTON. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . . E1	41	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3647-- VEHICULAR LIGHTING EQUIPMENT													
UNITED STATES. . . . .	46	30	13.5	141.1	10.6	21.3	101.5	298.4	204.7	497.8	7.2	(NA)	(NA)
NORTHEAST REGION . . . . .	9	5	1.6	12.9	1.2	2.4	7.9	26.7	16.6	41.7	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . .	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK . . . . .	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	26	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	24	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO . . . . .	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA . . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN . . . . .	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	8	3	.2	2.0	.2	.4	1.2	3.6	2.5	6.1	(Z)	(NA)	(NA)
PACIFIC DIVISION . . . . .	8	3	.2	2.0	.2	.4	1.2	3.6	2.5	6.1	(Z)	(NA)	(NA)
3648-- LIGHTING EQUIPMENT, NEC													
UNITED STATES. . . . .	190	95	12.7	107.9	9.2	18.4	63.1	254.3	219.4	466.5	16.6	(NA)	(NA)
NORTHEAST REGION . . . . .	73	37	4.7	38.4	3.5	6.7	23.3	67.5	74.6	160.5	2.6	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	20	13	2.1	15.8	1.6	3.1	10.4	39.2	30.3	68.9	1.2	(NA)	(NA)
VERMONT. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	9	6	1.1	8.0	.8	1.6	5.1	18.6	15.6	33.9	(D)	(NA)	(NA)
CONNECTICUT. . . . .	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . E1	53	24	2.6	22.6	1.9	3.6	12.9	48.3	44.4	91.6	1.4	(NA)	(NA)
NEW YORK . . . . . F5	26	8	.6	6.4	.5	.9	3.3	12.8	13.4	26.0	.1	(NA)	(NA)
NEW JERSEY . . . . .	13	9	1.5	13.0	1.0	1.9	7.4	29.7	23.6	52.6	1.1	(NA)	(NA)
PENNSYLVANIA . . . . .	12	7	.5	3.2	.4	.8	2.2	5.8	7.4	13.0	.3	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	48	22	3.5	32.5	2.4	4.9	17.6	66.6	64.7	128.1	5.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	38	19	3.0	28.5	2.1	4.3	15.4	56.6	58.6	112.2	5.1	(NA)	(NA)
OHIO . . . . .	11	6	1.4	14.3	1.0	1.9	7.5	26.9	24.3	49.5	.7	(NA)	(NA)
ILLINOIS . . . . . E2	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	10	3	.4	4.1	.3	.6	2.2	10.0	6.0	15.9	.7	(NA)	(NA)
MINNESOTA. . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	25	15	3.1	25.1	2.3	4.8	15.2	69.4	61.4	129.3	4.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	9	5	2.0	16.9	1.5	3.2	10.3	45.9	39.5	84.6	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	5	4	.5	3.4	.5	.9	2.6	10.8	11.0	20.9	(D)	(NA)	(NA)
MISSISSIPPI. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	11	6	.6	4.8	.4	.7	2.3	12.7	10.9	23.8	.6	(NA)	(NA)
TEXAS. . . . .	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	44	21	1.4	11.9	1.0	2.0	7.0	30.8	18.7	48.6	3.4	(NA)	(NA)
PACIFIC DIVISION . . . . .	41	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	39	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over



TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Electric lamps (SIC 3641)	Current- carrying wiring devices (SIC 3643)	Noncurrent- carrying wiring devices (SIC 3644)	Residential lighting fixtures (SIC 3645)	Commercial lighting fixtures (SIC 3646)	Vehicular lighting equipment (SIC 3647)	Lighting equipment, n.e.c. (SIC 3648)
PRIMARY PRODUCT SPECIALIZATION RATIO¹ . . . . PERCENT	95	83	81	97	90	68	86
COVERAGE RATIO² . . . . .DOU . .	96	81	78	93	91	94	79
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	142	401	179	701	235	46	190
WITH 1 TO 19 EMPLOYEES . . . . .DOU . .	71	191	62	423	96	16	95
WITH 20 TO 99 EMPLOYEES . . . . .DOU . .	21	120	55	222	81	14	65
WITH 100 EMPLOYEES OR MORE . . . . .DOU . .	50	90	62	56	58	16	30
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . 1,000	31.3	48.4	25.7	26.4	18.7	13.5	12.7
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS	237.8	369.4	217.0	189.1	147.9	141.1	107.9
PRODUCTION WORKERS:							
AVERAGE FOR YEAR . . . . .1,000 .	27.0	37.3	19.3	21.0	14.0	10.6	9.2
MARCH . . . . .DOU . .	26.7	35.6	18.7	20.7	13.5	11.0	8.9
MAY . . . . .DOU . .	26.9	36.9	19.1	20.4	13.5	10.8	9.0
AUGUST . . . . .DOU . .	27.0	37.9	19.5	21.0	14.4	10.1	9.3
NOVEMBER . . . . .DOU . .	27.5	39.7	19.9	21.9	14.3	10.7	9.5
MAN-HOURS . . . . .MILLIONS .	52.0	72.8	37.7	40.6	26.9	21.3	18.4
JANUARY-MARCH . . . . .DOU . .	13.0	17.6	9.1	9.9	6.6	5.2	4.4
APRIL-JUNE . . . . .DOU . .	13.3	18.7	9.6	10.1	6.7	5.5	4.6
JULY-SEPTEMBER . . . . .DOU . .	12.3	18.0	9.2	9.9	6.8	5.2	4.6
OCTOBER-DECEMBER . . . . .DOU . .	13.4	18.5	9.9	10.6	6.8	5.5	4.8
WAGES . . . . .MILLION DOLLARS .	185.0	235.3	147.0	120.6	93.0	101.5	63.1
COST OF MATERIALS, ETC., TOTAL . . . . .DOU . .	362.8	477.4	400.8	385.5	374.2	204.7	219.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED .DOU . .	344.8	426.9	349.3	344.3	359.8	196.9	197.9
COST OF REALES . . . . .DOU . .	7.1	19.1	39.5	30.8	5.6	2.3	14.4
FUELS CONSUMED . . . . .DOU . .	4.2	2.6	4.6	2.3	2.6	1.6	1.4
PURCHASED ELECTRIC ENERGY . . . . .DOU . .	6.4	7.9	5.8	3.4	2.7	2.8	2.4
CONTRACT WORK . . . . .DOU . .	.4	20.9	1.6	4.7	3.5	1.1	3.3
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . .DOU . .	1 086.2	1 216.6	886.4	765.4	717.4	497.8	466.5
VALUE OF REALES . . . . .DOU . .	7.1	27.5	54.6	45.2	7.8	3.3	17.3
VALUE ADDED BY MANUFACTURE . . . . .DOU . .	720.4	766.9	490.8	388.8	349.7	298.3	254.3
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . .DOU . .	106.9	210.8	175.4	121.4	113.3	40.4	76.5
FINISHED PRODUCTS . . . . .DOU . .	79.2	83.4	70.9	43.4	33.8	8.0	19.3
WORK IN PROCESS . . . . .DOU . .	5.6	68.9	46.7	29.2	27.2	20.3	25.1
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DOU . .	22.1	58.5	57.9	48.8	52.3	12.1	32.1
END OF YEAR, TOTAL . . . . .DOU . .	108.0	251.7	186.8	136.9	127.5	49.9	85.5
FINISHED PRODUCTS . . . . .DOU . .	73.0	95.8	76.6	49.1	37.4	10.6	21.8
WORK IN PROCESS . . . . .DOU . .	6.8	84.0	46.2	32.5	30.1	23.1	29.8
MATERIALS, SUPPLIES, FUEL, ETC. . . . .DOU . .	28.1	71.9	64.1	55.3	60.0	16.2	33.9
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . .DOU . .	41.4	56.1	26.2	14.2	14.3	7.9	17.4
NEW PLANT AND EQUIPMENT, TOTAL . . . .DOU . .	30.7	52.2	25.2	13.7	13.7	7.2	16.6
NEW STRUCTURES AND ADDITIONS TO PLANT . .DOU . .	3.3	13.6	6.3	3.9	3.6	.5	7.8
NEW MACHINERY AND EQUIPMENT . . . .DOU . .	27.4	38.6	18.9	9.8	10.1	6.7	8.9
USED PLANT AND EQUIPMENT . . . . .DOU . .	10.7	3.8	1.0	.5	.6	.7	.8

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix. Explanation of Terms)

Item	Establishments  (number)	All employees		Production workers			Value added by manufacture  (million dollars)	Cost of materials  (million dollars)	Value of shipments  (million dollars)	Capital expenditures, new  (million dollars)	End-of-year inventories  (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3641-- ELECTRIC LAMPS											
ESTABLISHMENTS, TOTAL. . . . .	142	31.3	237.8	27.0	52.0	185.0	720.4	362.9	1 088.2	30.7	108.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	39	.1	.5	.1	.1	.4	2.0	1.0	3.0	.1	.2
5 TO 9 EMPLOYEES . . . . . E8	21	.1	1.1	.1	.2	.7	2.8	1.5	4.3	.1	.3
10 TO 19 EMPLOYEES . . . . . E3	11	.1	1.0	.1	.2	.7	2.3	1.5	3.9	.1	.6
20 TO 49 EMPLOYEES . . . . . E1	12	.3	2.2	.3	.5	1.4	4.4	3.6	7.9	.7	.7
50 TO 99 EMPLOYEES . . . . .	9	.7	4.2	.6	.9	3.0	9.3	6.9	15.8	.4	2.7
100 TO 249 EMPLOYEES . . . . .	7	1.0	7.2	.9	1.7	5.2	31.6	18.4	50.4	.6	3.7
250 TO 499 EMPLOYEES . . . . .	17	5.3	42.7	5.0	9.6	32.3	119.3	64.7	181.7	9.7	17.6
500 TO 999 EMPLOYEES . . . . .	18	12.0	88.9	10.4	19.7	70.3	302.2	142.6	444.6	12.0	37.6
1,000 TO 2,499 EMPLOYEES . . . . .	8	11.1	90.0	9.6	19.0	71.0	246.5	122.6	376.7	6.9	44.1
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	44	.2	1.1	.2	.3	.9	3.6	1.9	5.5	.2	.3
3643-- CURRENT-CARRYING WIRING DEVICES											
ESTABLISHMENTS, TOTAL. . . . .	401	48.4	369.4	37.3	72.8	235.3	766.9	477.4	1 216.6	52.2	251.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E5	92	.2	1.1	.2	.2	.7	4.2	5.4	9.9	.7	1.7
5 TO 9 EMPLOYEES . . . . . E8	43	.3	2.1	.2	.4	1.3	4.5	2.7	7.1	.2	1.5
10 TO 19 EMPLOYEES . . . . . E1	56	.8	5.5	.6	1.2	3.6	9.2	19.4	.7	.3	3.2
20 TO 49 EMPLOYEES . . . . .	77	2.5	16.9	2.1	4.0	10.9	38.0	26.2	63.2	2.1	17.7
50 TO 99 EMPLOYEES . . . . .	43	3.0	23.2	2.3	4.8	15.1	51.4	42.1	92.2	2.7	17.6
100 TO 249 EMPLOYEES . . . . .	48	8.1	61.9	6.2	12.5	40.3	157.8	90.1	245.8	9.0	43.9
250 TO 499 EMPLOYEES . . . . .	23	8.6	64.1	6.7	13.2	40.1	120.7	85.5	203.6	6.5	42.2
500 TO 999 EMPLOYEES . . . . .	9	6.3	57.0	4.3	8.2	32.1	126.6	74.2	198.2	5.8	39.8
1,000 TO 2,499 EMPLOYEES . . . . .	8	18.6	137.6	14.7	28.3	91.2	253.2	142.0	377.2	23.5	91.1
2,500 EMPLOYEES OR MORE. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	114	.5	3.2	.4	.7	2.1	7.9	5.2	13.1	.4	2.0

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inventories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3644-- NONCURRENT-CARRYING WIRING DEVICES											
ESTABLISHMENTS, TOTAL. . . . .	179	25.7	217.0	19.3	37.7	147.0	490.8	400.8	686.4	25.2	186.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	19	(Z)	.2	(Z)	.1	.2	.4	.4	.8	(Z)	.2
5 TO 9 EMPLOYEES . . . . . E6	18	.1	1.1	.1	.2	.7	2.9	2.9	5.7	.1	1.1
10 TO 19 EMPLOYEES . . . . . E2	25	.3	2.7	.3	.5	1.6	5.9	5.9	11.5	.3	2.3
20 TO 49 EMPLOYEES . . . . .	27	.9	6.5	.7	1.4	4.6	12.2	16.5	28.8	.9	4.4
50 TO 99 EMPLOYEES . . . . .	28	1.9	15.5	1.5	3.1	11.2	46.4	44.1	91.1	3.0	16.4
100 TO 249 EMPLOYEES . . . . .	35	5.9	46.1	4.7	8.7	32.0	101.0	100.3	199.7	4.3	41.2
250 TO 499 EMPLOYEES . . . . .	17	6.0	50.7	4.5	8.6	33.6	110.9	109.4	220.0	4.2	42.3
500 TO 999 EMPLOYEES . . . . .	6	4.4	40.9	3.4	6.9	27.6	86.1	63.8	148.6	3.2	32.0
1,000 TO 2,499 EMPLOYEES . . . . .	4	6.2	53.1	4.1	8.2	35.6	124.9	57.5	180.1	5.2	47.0
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	25	.1	.9	.1	.2	.5	2.3	1.8	4.1	.1	.9
3645-- RESIDENTIAL LIGHTING FIXTURES											
ESTABLISHMENTS, TOTAL. . . . . E1	701	26.4	189.1	21.0	40.6	120.6	388.8	385.5	765.4	13.7	136.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	236	.5	3.4	.4	.7	2.2	9.4	8.8	18.6	.5	3.2
5 TO 9 EMPLOYEES . . . . . E6	85	.6	4.3	.4	.8	2.6	9.4	9.3	18.3	.3	2.9
10 TO 19 EMPLOYEES . . . . . E3	102	1.4	10.2	1.1	2.1	6.7	21.3	20.6	41.8	.9	5.5
20 TO 49 EMPLOYEES . . . . . E2	137	4.5	31.3	3.6	6.8	19.9	68.2	68.4	136.0	2.5	17.9
50 TO 99 EMPLOYEES . . . . . E2	85	6.1	42.5	4.8	9.4	25.4	86.2	91.3	176.8	3.2	28.6
100 TO 249 EMPLOYEES . . . . .	39	5.7	36.1	4.7	8.8	23.9	75.2	68.7	142.9	2.6	27.9
250 TO 499 EMPLOYEES . . . . .	12	4.1	30.9	3.3	6.6	20.3	55.3	50.5	103.5	1.4	26.3
500 TO 999 EMPLOYEES . . . . .	4	3.7	30.4	2.7	5.4	19.6	63.8	67.9	127.3	2.2	24.5
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	219	.7	4.9	.5	1.0	3.1	12.5	11.4	24.0	.5	4.1
3646-- COMMERCIAL LIGHTING FIXTURES											
ESTABLISHMENTS, TOTAL. . . . .	235	18.7	147.9	14.0	26.9	93.0	349.7	374.2	717.4	13.7	127.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	29	.1	.5	.1	.1	.3	1.3	1.3	2.6	.1	.4
5 TO 9 EMPLOYEES . . . . . E5	30	.2	1.8	.1	.3	1.0	3.8	4.2	8.0	.1	1.2
10 TO 19 EMPLOYEES . . . . .	37	.5	4.3	.4	.7	2.6	11.0	6.4	17.3	.2	1.7
20 TO 49 EMPLOYEES . . . . .	53	1.8	14.6	1.3	2.5	8.4	32.7	31.5	62.8	2.1	9.5
50 TO 99 EMPLOYEES . . . . .	28	2.0	14.0	1.6	3.0	9.3	29.0	35.8	64.5	.5	8.6
100 TO 249 EMPLOYEES . . . . .	39	6.4	51.5	4.9	8.9	32.4	128.3	120.3	254.7	3.2	40.2
250 TO 499 EMPLOYEES . . . . .	14	4.6	35.0	3.2	6.2	20.9	76.4	86.2	160.2	2.8	32.7
500 TO 999 EMPLOYEES . . . . .	3	3.2	26.2	2.4	5.2	18.1	65.5	81.2	147.3	4.8	33.1
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	46	.2	1.6	.2	.3	1.0	3.9	3.6	7.5	.2	1.3
3647-- VEHICULAR LIGHTING EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	46	13.5	141.1	10.6	21.3	101.5	298.3	204.7	497.8	7.2	49.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	9	(Z)	.2	(Z)	(Z)	.2	.5	.5	1.0	(Z)	.2
5 TO 9 EMPLOYEES . . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES . . . . .	5	.1	.6	.1	.1	.4	1.7	1.8	3.4	(Z)	.4
20 TO 49 EMPLOYEES . . . . .	8	.3	2.2	.2	.4	1.3	4.0	4.3	8.3	.1	1.3
50 TO 99 EMPLOYEES . . . . .	6	.4	2.3	.3	.5	1.4	6.2	7.4	13.5	.1	2.1
100 TO 249 EMPLOYEES . . . . .	7	1.7	10.3	1.2	2.4	6.7	26.6	16.6	41.9	1.4	6.8
250 TO 499 EMPLOYEES . . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 TO 999 EMPLOYEES . . . . .	4	2.4	19.3	1.8	3.6	12.0	37.5	23.3	58.6	1.1	12.7
1,000 TO 2,499 EMPLOYEES . . . . .	2	8.6	106.1	6.9	14.2	79.7	221.9	150.9	371.1	4.3	26.3
2,500 EMPLOYEES OR MORE. . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	11	.1	.4	(Z)	.1	.3	.9	.8	1.6	(Z)	.3
3648-- LIGHTING EQUIPMENT, NEC											
ESTABLISHMENTS, TOTAL. . . . .	190	12.7	107.9	9.2	18.4	63.1	254.3	219.4	466.5	16.6	85.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	44	.1	.6	.1	.1	.4	1.9	1.7	3.5	.1	.6
5 TO 9 EMPLOYEES . . . . . E4	22	.2	1.2	.1	.2	.7	2.5	1.7	4.2	.1	1.0
10 TO 19 EMPLOYEES . . . . .	29	.4	3.7	.3	.6	1.8	9.1	9.1	18.4	1.0	2.0
20 TO 49 EMPLOYEES . . . . .	34	1.1	8.0	.8	1.6	5.0	15.7	16.2	31.7	.6	5.6
50 TO 99 EMPLOYEES . . . . .	31	2.2	18.1	1.6	3.0	10.2	40.7	38.0	78.6	1.6	14.3
100 TO 249 EMPLOYEES . . . . . E1	18	2.7	22.5	2.0	4.0	13.5	55.8	50.3	103.9	3.8	24.0
250 TO 499 EMPLOYEES . . . . .	8	2.9	24.8	2.0	4.3	13.7	54.8	47.6	98.6	4.7	20.5
500 TO 999 EMPLOYEES . . . . .	3	3.1	29.1	2.2	4.6	17.8	73.9	54.9	127.5	4.8	17.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	48	.2	1.2	.1	.2	.8	2.7	2.5	5.2	.1	.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new
			Number	Payroll	Number	Man hours	Wages				
			(number)	(1,000)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3641	ELECTRIC LAMPS										
	ENTIRE INDUSTRY . . . . .	142	31.3	237.8	27.0	52.0	185.0	720.4	362.9	1 088.2	30.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	131	27.6	204.0	24.5	46.8	166.1	692.9	323.3	1 015.2	28.8
3643	CURRENT CARRYING WIRING DEVICES										
	ENTIRE INDUSTRY . . . . .	401	48.4	369.4	37.3	72.8	235.3	766.9	477.4	1 216.6	52.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	354	31.3	234.2	24.5	48.0	155.1	486.9	318.7	790.6	39.7
3644	NONCURRENT CARRYING WIRING DEVICES										
	ENTIRE INDUSTRY . . . . .	179	25.7	217.0	19.3	37.7	147.0	490.8	400.8	886.4	25.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	156	15.5	129.4	12.4	24.4	92.3	294.3	265.5	560.9	15.1
36441	POLE LINE AND TRANSMISSION HARDWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	32	6.6	59.3	4.9	9.9	38.4	110.1	104.7	215.7	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	25	4.0	34.9	3.1	6.2	24.1	70.9	70.3	144.9	2.8
36442	ELECTRICAL CONDUIT AND CONDUIT FITTINGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	59	11.2	93.4	8.0	15.5	62.0	234.2	215.8	447.1	13.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	44	4.3	33.8	3.5	6.8	24.1	83.6	121.3	205.6	5.2
36443	OTHER NONCURRENT CARRYING WIRE DEVICES, SUPPLIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	42	7.0	57.5	7.8	11.1	42.6	133.8	71.9	202.7	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	29	3.9	34.2	3.2	6.2	25.1	75.9	43.8	118.9	4.5
3645	RESIDENTIAL LIGHTING FIXTURES										
	ENTIRE INDUSTRY . . . . .	701	26.4	189.1	21.0	40.6	120.6	388.8	385.5	765.4	13.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	613	24.5	175.4	19.5	37.8	112.8	359.8	359.8	709.4	12.3
36451	RESIDENTIAL-TYPE ELECTRIC FIXTURES, EXC. PORTABLE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	94	9.5	70.1	7.3	14.4	44.6	150.7	154.5	297.7	5.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	81	8.9	66.3	6.8	13.6	42.4	140.1	147.6	279.9	4.5
36457	PORTABLE RES.-TYPE LIGHTING FIXTURES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	204	12.3	83.7	10.2	19.3	54.5	167.8	163.5	330.1	5.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	186	10.9	73.8	9.0	17.0	48.6	149.6	142.6	290.1	4.7
3646	COMMERCIAL LIGHTING FIXTURES										
	ENTIRE INDUSTRY . . . . .	235	18.7	147.9	14.0	26.9	93.0	349.7	374.2	717.4	13.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	211	16.6	130.8	12.4	24.1	83.5	290.4	338.8	623.8	13.1
36462	COMM'L, INSTITUTIONAL-TYPE ELEC. LIGHTING FIXTURES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	144	16.3	128.8	12.1	23.3	81.1	291.6	328.0	613.6	11.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	110	12.6	101.1	9.3	18.0	64.7	223.4	246.6	466.9	10.1
36463	INDUS.-TYPE ELEC. LIGHTING FIXTURES, AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	40	2.0	15.3	1.5	3.0	9.7	50.2	40.6	90.4	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	20	.7	5.8	.6	1.1	3.8	11.8	12.7	24.4	.12
3647	VEHICULAR LIGHTING EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	46	13.5	141.1	10.6	21.3	101.5	298.4	204.7	497.8	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	41	9.9	101.4	7.7	15.4	70.4	200.2	110.5	308.0	4.5
3648	LIGHTING EQUIPMENT, NEC										
	ENTIRE INDUSTRY . . . . .	190	12.7	107.9	9.2	18.4	63.1	254.3	219.4	466.5	16.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	159	9.5	82.2	6.8	13.4	46.6	202.4	177.4	373.8	14.7
36485	OUTDOOR LIGHTING EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	61	8.3	76.0	5.8	11.8	42.9	181.3	163.3	338.4	13.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	44	6.2	58.0	4.3	8.5	31.5	145.1	131.2	271.0	12.4
36489	OTHER ELEC., NONELEC. LIGHTING EQUIP. AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	76	4.2	30.6	3.2	6.3	19.3	70.0	53.4	122.4	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	56	2.6	20.1	2.1	4.1	12.7	48.5	37.5	85.4	2.1



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. B & C				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3641	Electric lamps.....1972..	1,088.2	1,025.3	55.1	7.8	95	1,069.1	1,025.3	43.8	96
	.....1967..	781.8	720.3	42.9	18.6	94	756.4	720.3	36.1	95
3643	Current-carrying wiring devices.....1972..	1,216.6	971.5	203.1	42.0	83	1,206.8	971.5	235.3	81
	.....1967..	837.0	619.7	171.6	45.8	78	789.8	619.7	170.1	78
3644	Noncurrent-carrying wiring devices.....1972..	886.4	647.6	178.9	59.9	78	832.7	647.6	185.1	78
	.....1967..	637.9	447.4	156.8	33.7	74	548.6	447.4	101.2	82
3645	Residential lighting fixtures.....1972..	765.4	695.3	23.3	46.8	97	747.4	695.3	52.1	93
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3646	Commercial lighting fixtures.....1972..	717.4	639.2	67.7	10.5	90	701.8	639.2	62.6	91
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3647	Vehicular lighting equipment.....1972..	497.8	335.8	157.0	5.0	68	358.1	335.8	22.3	94
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3648	Lighting equipment, n.e.c.....1972..	466.5	384.6	62.2	19.7	86	488.0	384.6	103.4	79
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Electric lamps (SIC 3641)	Current-carrying wiring devices (SIC 3643)	Noncurrent-carrying wiring devices (SIC 3644)	Residential lighting fixtures (SIC 3645)	Commercial lighting fixtures (SIC 3646)	Vehicular lighting equipment (SIC 3647)	Lighting equipment, n.e.c. (SIC 3648)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	1,088.2	1,216.6	886.4	765.4	717.4	497.8	466.5	(X)
36410	Electric lamps (bulbs only), including sealed beam lamps.....	1,069.1	1,025.3	-	-	(under 2)	-	(over 2)	-	21.4
36430	Current-carrying wiring devices, including lightning rods.....	1,206.8	(under 2)	971.5	-	-	(under 2)	.6	(under 2)	232.3
3644	Noncurrent-carrying wiring devices.....	832.7	-	(over 2)	647.6	-	-	-	(over 2)	152.6
36441	Pole line and transmission hardware.....	222.3	-	(over 2)	165.2	-	-	-	(over 2)	27.2
36442	Electrical conduit and conduit fittings.....	393.7	-	(over 2)	322.2	-	-	-	(under 2)	57.1
36443	Other noncurrent-carrying wiring devices and supplies.....	195.9	-	(over 2)	139.4	-	-	-	(under 2)	48.3
36440	Noncurrent-carrying wiring devices, n.s.k.....	20.8	-	-	20.8	-	-	-	-	-
3645	Residential lighting fixtures.....	747.4	-	1.0	-	695.3	29.5	-	3.0	18.6
36451	Residential-type electric fixtures, except portable.....	291.9	-	(under 2)	-	257.3	26.2	-	(over 2)	5.9
36457	Portable residential-type lighting fixtures and parts.....	320.9	-	(under 2)	-	307.8	(2-5)	-	(under 2)	9.4
36450	Residential lighting fixtures, n.s.k.....	133.3	-	-	-	130.2	(under 2)	-	(under 2)	2.0
3646	Commercial lighting fixtures.....	701.8	-	(under 2)	20.8	7.3	639.2	(under 2)	25.9	7.7
36462	Commercial and institutional-type electric lighting fixtures.....	527.2	-	-	(under 2)	4.4	510.1	-	8.0	(2-5)
36463	Industrial-type electric lighting fixtures, and parts.....	162.6	-	(under 2)	20.7	2.9	117.1	(under 2)	17.9	3.1
36460	Commercial lighting fixtures, n.s.k.....	12.0	-	-	-	-	12.0	-	-	-
36470	Vehicular lighting equipment (including parts and accessories).....	358.1	(under 2)	-	-	(under 2)	(under 2)	335.8	(under 2)	19.1

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Electric lamps (SIC 3641)	Current-carrying wiring devices (SIC 3643)	Noncurrent-carrying wiring devices (SIC 3644)	Residential lighting fixtures (SIC 3645)	Commercial lighting fixtures (SIC 3646)	Vehicular lighting equipment (SIC 3647)	Lighting equipment, n.e.c. (SIC 3648)	Other industries
	Shipments and miscellaneous receipts--Continued									
3648	Lighting equipment n.e.c.....	488.0	(under 2)	0.7	(2-5)	2.9	18.4	2.2	384.6	74.9
36485	Outdoor lighting equipment.....	316.5	-	.7	(2-5)	2.4	15.1	-	272.4	21.9
36489	Other electric and nonelectric lighting equipment and parts.....	164.7	(under 2)	-	-	.5	3.3	(over 2)	105.4	53.0
36480	Lighting equipment, n.e.c., n.s.k.....	6.8	-	-	-	-	-	-	6.8	-
	Other product shipments by 4-digit product group:									
3079	Miscellaneous plastics products.....	(X)	(under 2)	6.5	(under 2)	(under 2)	(over 2)	(under 2)	(under 2)	(X)
3229	Pressed and blown glass, n.e.c.....	(X)	(under 2)	-	-	-	(over 2)	-	-	(X)
3231	Products of purchased glass.....	(X)	-	-	-	-	(under 2)	(10-20)	-	(X)
3317	Steel pipe and tubes.....	(X)	-	-	18.3	-	-	-	-	(X)
3341	Secondary nonferrous metals.....	(X)	-	(over 2)	-	-	-	-	-	(X)
3357	Nonferrous wiredrawing and insulating.....	(X)	(over 2)	(over 2)	(under 2)	-	-	-	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	-	(under 2)	(2-5)	-	-	-	-	(X)
3429	Hardware, n.e.c.....	(X)	-	-	-	(2-5)	-	(over 2)	(under 2)	(X)
3441	Fabricated structural metal.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3444	Sheet metalwork.....	(X)	-	(under 2)	-	(under 2)	(2-5)	-	-	(X)
3452	Bolts, nuts, rivets, and washers.....	(X)	-	(under 2)	(5-10)	-	-	-	-	(X)
3462	Iron and steel forgings.....	(X)	-	-	(over 2)	-	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	-	(over 2)	(over 2)	-	-	-	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	-	(under 2)	(2-5)	(under 2)	(under 2)	-	(under 2)	(X)
3544	Special dies, tools, jigs, and fixtures.....	(X)	(under 2)	(2-5)	-	(under 2)	-	(over 2)	(under 2)	(X)
3559	Special industry machinery, n.e.c.....	(X)	(over 2)	(under 2)	-	-	-	-	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	-	(under 2)	(over 2)	-	-	-	-	(X)
3612	Transformers.....	(X)	0.6	-	-	-	-	-	(over 2)	(X)
3613	Switchgear and switchboard apparatus.....	(X)	-	50.4	14.0	-	(under 2)	-	-	(X)
3622	Industrial controls.....	(X)	-	28.4	(2-5)	-	-	-	-	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	-	-	-	(under 2)	-	-	(5-10)	(X)
3634	Electric housewares and fans.....	(X)	(under 2)	(over 2)	-	-	(under 2)	(under 2)	(under 2)	(X)
3662	Radio and TV communication equipment.....	(X)	(under 2)	-	-	-	(under 2)	(over 2)	.1	(X)
3678	Electronic connectors.....	(X)	-	4.4	-	-	-	-	-	(X)
3691	Storage batteries.....	(X)	-	-	-	-	-	-	(over 2)	(X)
3694	Engine electrical equipment.....	(X)	-	(over 2)	-	-	-	(10-20)	(under 2)	(X)
3699	Electrical equipment and supplies, n.e.c.....	(X)	-	7.9	(under 2)	(under 2)	-	-	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	-	(under 2)	-	-	(50-100)	-	(X)
3999	Manufacturing industries, n.e.c.....	(X)	-	(under 2)	(under 2)	4.0	-	-	(under 2)	(X)
	Miscellaneous receipts.....	(X)	7.8	42.0	59.9	46.8	10.5	5.0	19.7	(X)
	Contract work.....	(X)	(D)	4.2	2.7	1.2	.9	(D)	(D)	(X)
	Resales.....	(X)	7.1	27.5	54.6	45.2	7.8	3.3	17.3	(X)
	Scrap and refuse.....	(X)	(X)	5.9	1.8	(D)	0.3	1.0	0.4	(X)
	Receipts for research and development work.....	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
	Other miscellaneous receipts.....	(X)	(D)	4.4	0.8	(D)	1.5	(D)	1.0	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries					
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued						
3641	3573 Electronic computing equipment.....	(over 2)	3644	3357 Nonferrous wiredrawing and insulating.....	3.6					
	3661 Telephone and telegraph apparatus.....	(over 2)		3452 Bolts, nuts, rivets, and washers.....	(2-5)					
	3714 Motor vehicle parts and accessories.....	(over 2)		3494 Valves and pipe fittings.....	(2-5)					
3642	3699 Electrical equipment and supplies, n.e.c.....	(over 2)		3568 Power transmission equipment, n.e.c.....	(over 2)					
3643	3264 Porcelain electrical supplies.....	(over 2)		3613 Switchgear and switchboard apparatus.....	(10-20)					
	3356 Nonferrous rolling and drawing, n.e.c.....	(over 2)		3661 Telephone and telegraph apparatus.....	(over 2)					
	3537 Industrial trucks and tractors.....	(over 2)		3679 Electronic components, n.e.c.....	(over 2)					
	3564 Blowers and fans.....	(over 2)		3714 Motor vehicle parts and accessories.....	(over 2)					
	3613 Switchgear and switchboard apparatus.....	(10-20)		3861 Photographic equipment and supplies.....	(over 2)					
	3622 Industrial controls.....	14.6	3645	2511 Wood household furniture.....	(2-5)					
	3623 Welding apparatus, electric.....	(over 2)		3949 Sporting and athletic goods, n.e.c.....	(over 2)					
	3624 Carbon and graphite products.....	(over 2)		3999 Manufacturing industries, n.e.c.....	(2-5)					
	3629 Electrical industrial apparatus, n.e.c.....	(over 2)	3646	3613 Switchgear and switchboard apparatus.....	(2-5)					
	3661 Telephone and telegraph apparatus.....	(10-20)	3647	3231 Products of purchased glass.....	(over 2)					
	3662 Radio and TV communication equipment.....	2.5		3369 Nonferrous foundries, n.e.c.....	(over 2)					
	3678 Electronic connectors.....	24.8		3429 Hardware, n.e.c.....	(2-5)					
	3679 Electronic components, n.e.c.....	16.5		3694 Engine electrical equipment.....	(5-10)					
	3699 Electrical equipment and supplies, n.e.c.....	5.4	3648	3272 Concrete products, n.e.c.....	(over 2)					
	3822 Environmental controls.....	(2-5)		3442 Metal doors, sash, and trim.....	(over 2)					
	3825 Instruments to measure electricity.....	(2-5)		3499 Fabricated metal products, n.e.c.....	(2-5)					
	3861 Photographic equipment and supplies.....	(over 2)		3523 Farm machinery and equipment.....	(over 2)					
3644	2641 Paper coating and glazing.....	(over 2)		3585 Refrigeration and heating equipment.....	(10-20)					
	3312 Blast furnaces and steel mills.....	(over 2)		3692 Primary batteries, dry and wet.....	(5-10)					
	3317 Steel pipe and tubes.....	22.6		3699 Electrical equipment and supplies, n.e.c.....	(5-10)					
	3351 Copper rolling and drawing.....	(over 2)		3842 Surgical appliances and supplies.....	(over 2)					

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3641- --	ELECTRIC LAMPS, TOTAL.....	.....	(X)	(X)	1,069.1	(X)	(X)	756.4
36410 10	Electric Lamps (Bulbs Only), Including Sealed Beam Lamps <sup>1</sup>							
	As reported in the census of manufactures.....	.....	(X)	(X)	1,067.8	(X)	(X)	<sup>2</sup> 756.4
	As reported in Current Industrial Reports series MQ36B.....	.....	(X)	(X)	1,040.0	(X)	(X)	742.7
	Photographic incandescent.....	Mil.bulbs.	1,709.6	1,829.1	165.9	1,503.5	1,468.7	131.0
	Photoflash, including blue.....	..do....	1,693.3	1,812.8	121.7	1,486.3	1,454.3	104.1
36410 26	AG (all glass) lamps.....	..do....	23.1	81.8	6.0	1,486.3	1,454.3	104.1
36410 24	M-types.....	..do....	174.8	158.6	15.4			
36410 21	Flash cubes.....	..do....	1,458.2	1,535.0	96.2			
36410 22	Other flash lamps.....	..do....	37.1	37.4	4.1			
36410 28	Projection—bulk packed.....	..do....	3.6	3.5	7.7	2.7	2.8	5.4
36410 29	Projection—all other.....	..do....	9.1	9.0	29.2	7.8	6.8	15.4
36410 25	Photoflood, photo-enlarger, and other photolamps.....	..do....	3.7	3.8	7.2	6.7	4.8	6.1
	Large incandescent, except photographic and Christmas tree...	..do....	1,737.6	1,698.0	380.0	1,390.7	1,398.6	263.2
	General lighting:							
36410 08	15-150 watts, 100-130 volts—white lamps.....	..do....	493.3	486.0	75.6	240.5	247.3	35.2
36410 09	15-150 watts, 100-130 volts—all other.....	..do....	749.8	741.6	108.5	745.4	747.3	87.8
36410 12	Above 150 watt, 100-130 volts.....	..do....	69.7	69.3	24.2	63.3	65.0	18.4
36410 13	3-light, 100-130 volts.....	..do....	50.7	51.5	19.0	38.5	39.4	11.8
	Reflector, 100-130 volts:							
36410 14	Par type (pressed glass).....	..do....	27.8	27.9	35.4	19.8	20.2	22.9
36410 19	R type (blown glass).....	..do....	23.2	23.7	19.8	17.9	17.0	12.9
36410 15	Infrared (all types) 100-130 volts.....	..do....	4.5	4.7	7.5	4.3	4.0	5.8
36410 16	Traffic and street lighting, 100-130 volts.....	..do....	9.8	10.1	3.6	12.9	13.7	4.4
36410 17	Rough and vibration service, 100-130 volts.....	..do....	33.3	31.2	9.9	31.5	31.7	7.5
	Quartz iodine (exclude 650 watt sunguns):							
36410 05	General lighting.....	..do....	2.6	2.5	11.9	216.6	213.0	56.5
36410 06	Other.....	..do....	.7	.8	6.0			
36410 07	Decorative under 150 watt, 100-130 volt.....	..do....	272.1	39.4	12.2			
36410 18	All other large incandescent (special purpose).....	..do....	(X)	209.4	46.4			
	Miniature incandescent.....	..do....	1,037.8	1,042.3	170.3	830.0	839.1	123.8
	Automobile glass and metal sealed beams:							
36410 30	Under 6 inches—bulk packed.....	..do....	33.1	34.4	20.4	32.5	34.0	20.5
36410 31	Under 6 inches—all other.....	..do....	29.7	28.4	23.1	23.7	23.8	16.6
36410 32	6 inches and over—bulk packed.....	..do....	12.1	12.4	8.8	5.4	5.7	4.0
36410 37	6 inches and over—all other.....	..do....	17.0	17.1	14.4	11.5	11.6	9.0
	Automobile miniature other than glass and metal sealed beams.....	..do....	699.7	691.0	55.8	496.5	517.7	38.2
36410 33	Bulk packed.....	..do....	501.5	496.4	32.7	309.2	327.4	21.6
36410 36	All other.....	..do....	198.2	184.6	23.1	187.3	190.3	16.5
36410 34	Flashlight.....	..do....	56.7	61.4	5.1	75.4	69.4	3.7
36410 35	Radio panel.....	..do....	61.8	62.3	3.4	54.2	57.2	2.6
36410 39	All other miniature.....	..do....	142.4	145.2	39.2	130.8	119.7	29.3
	Subminiature lamps (T-2 and below) included above.....	..do....	(X)	98.9	25.3	(X)	(X)	(X)
	Electric discharge, except Christmas tree.....	..do....	434.9	431.8	303.8	315.1	322.5	209.4
36410 41	Germicidal, bacterial, and ozone.....	..do....	.4	.4	1.0	.8	.6	1.1
36410 42	Sun lamp bulbs.....	..do....	.7	.8	3.5	.8	.7	3.2
	Fluorescent, hot cathode.....	..do....	290.0	292.8	230.3	224.1	233.8	166.5
36410 43	Slimline.....	..do....	53.1	53.8	57.7	41.4	41.2	40.7
36410 46	Circular.....	..do....	4.9	5.2	9.9	6.6	5.9	9.3
36410 47	High output 800 milliamp and over.....	..do....	22.8	22.4	37.4	14.0	14.4	23.4
36410 44	Other fluorescent lamps, below 40 watts.....	..do....	46.2	45.0	34.5	36.5	38.0	22.2
36410 45	Other fluorescent lamps, 40 watt and over.....	..do....	163.0	166.5	90.9	125.7	134.3	71.0
	Miscellaneous electrical discharge.....	..do....	143.9	137.8	69.0	89.3	87.3	38.6
36410 52	General lighting high intensity lamps.....	..do....	8.3	8.0	52.8	5.1	4.4	27.6
36410 53	Sodium, photo-chemical, and other miscellaneous electrical discharge.....	..do....	.1	.1	4.0	.1	.1	3.6
36410 51	Glow.....	..do....	135.5	129.7	12.2	84.1	82.8	7.4
36410 55	Christmas tree lamps (all types).....	..do....	240.7	228.7	20.1	251.5	245.6	15.3
36410 63	Cold cathode fluorescent lamps for illumination and decoration, including custom built lamps, but excluding sign applications...	.....	(X)	(X)	1.3	(X)	(X)	( <sup>2</sup> )

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value  (million dollars)
1972				
3643- --	CURRENT-CARRYING WIRING DEVICES: <sup>1</sup>			
	Current-Carrying Wiring Devices, Including Lightning Rods:			
36430 00	As reported in the census of manufactures.....		(X)	1,206.8
	As reported in Current Industrial Reports series MA-36K.....		(X)	1,128.5
	Lampholders:			
	Incandescent:			
36430 04	Nonmetallic outer shell, threaded, medium base only, key, keyless, push through, and pull types (excluding outlet box type and socket interiors).....	Million units.....	37.7	13.7
36430 01	Metal outer shell, threaded, medium base only, key, keyless, push through, and pull types (excluding outlet box type and socket interiors).....	...do.....	56.5	10.6
36430 02	Outlet box, threaded medium base only, pull and keyless types.....	...do.....	12.0	3.5
36430 06	Weatherproof, threaded, medium base only.....	...do.....	8.7	2.4
36430 07	All other incandescent (including but not limited to admedium, bayonet, candelabra, cleat, husk, interme- diate, lumiline, miniature, mogul, pin-type quartz, sign, snap-in, socket interiors sold separately, all bases).....	...do.....	315.2	30.8
	Fluorescent:			
36430 08	Bi-pin.....	...do.....	136.9	10.9
36430 09	Slimline.....	...do.....	45.0	4.7
36430 10	All other fluorescent (including, but not limited to recessed contact, circling, panelescent, starter holders and springback for outdoor use).....	...do.....	13.4	2.3
36430 18	All other lampholders (including, but not limited to cold cathode, neon, and bases for quartz lamps).....	...do.....	.8	1.0
	Convenience and power outlets, both general and special purposes:			
36430 28	2-pole, 2-wire (flush, all types, all amperages).....	...do.....	45.8	8.6
	2-pole, 3-wire and up (flush):			
36430 29	Locking, 15 amperes and under.....	...do.....	5.6	3.2
36430 30	Locking, 20 amperes and over.....	...do.....	2.3	5.0
36430 31	Nonlocking, 15 amperes and under.....	...do.....	85.0	29.5
36430 32	Nonlocking, 20 amperes and over.....	...do.....	30.0	14.8
36430 34	Appliance and special applications (including pin and sleeve) all amperages.....	...do.....	8.5	15.3
36430 35	Dust and explosion proof (excluding pin and sleeve).....	...do.....		
36430 38	All other types (including but not limited to surface raceway outlets).....	...do.....		
	Attachment plug caps and flanged inlet (including motor bases—all types (including fused, fuseless, switch and switchless):			
36430 40	2-pole, 2-wire, all types, all amperages.....	...do.....	101.4	10.1
	2-pole, 3-wire and up:			
36430 41	Locking 15 amperes and under.....	...do.....	3.3	3.1
36430 42	Locking, 20 amperes and over.....	...do.....	4.7	8.6
36430 43	Nonlocking, 15 amperes and under.....	...do.....	22.2	10.4
36430 44	Nonlocking, 20 amperes and over.....	...do.....	5.2	2.5
36430 46	Appliance and special application types (including pin and sleeve)—all amperages.....	...do.....	4.7	2.4
36430 47	Dust and explosion proof (excluding pin and sleeve).....	...do.....	4.8	4.7
36430 48	All other types (excluding pin and sleeve).....	...do.....		
	Connector bodies and flanged outlets—all types (including fused and fuseless):			
36430 49	2-pole, 2-wire, all types, all amperages.....	...do.....	29.9	3.4
	2-pole, 3-wire and up:			
36430 50	Locking, 15 amperes and under.....	...do.....	1.5	2.1
36430 51	Locking, 20 amperes and over.....	...do.....	2.4	6.7
36430 54	Nonlocking, 15 amperes and under.....	...do.....	10.7	8.6
36430 55	Nonlocking, 20 amperes and over.....	...do.....	1.4	1.1
36430 57	Appliance and special application types (including pin and sleeve)—all amperages.....	...do.....	16.7	20.5
36430 58	Dust and explosion proof (excluding pin and sleeve).....	...do.....		
36430 59	All other types (excluding pin and sleeve).....	...do.....		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value (million dollars)
3643- --	CURRENT-CARRYING WIRING DEVICES--Continued Current-Carrying Wiring Devices, Including Lightning Rods--Con. As reported in Current Industrial Reports series MA-36K--Con.		1972	
	Pin and sleeve convenience and power outlets, attachment plug caps, and connector bodies: Pin and sleeve--general purpose (120 volts and over, 20 amperes and over):			
36430 20	Convenience and power outlets.....	Million units.....	(NA)	25.3
36430 21	Attachment plug caps.....	..do.....		
36430 22	Connector bodies.....	..do.....		
	Pin and sleeve--dust and explosion proof (120 volts and over, 20 amperes and over):			
36430 23	Convenience and power outlets.....	..do.....		
36430 24	Attachment plug caps.....	..do.....		
36430 25	Connector bodies.....	..do.....		
36430 26	Pin and sleeve--less than 120 volts, less than 20 amperes, all types, except electronic.....	..do.....		
	Switches: General use flush mounted switches, designed for mounting in switch or outlet boxes (except dimmers):			
	A.C. (except mercury):			
36430 60	Single pole--15 amperes and under.....	..do.....	34.2	11.6
36430 63	Single pole--over 15 amperes.....	..do.....	21.8	7.4
36430 64	Other than single pole (including but not limited to double pole, 3-way, 4-way)--all amperages.....	..do.....	16.9	8.2
	A.C.--D.C. (except mercury):			
36430 65	Single pole--all amperages.....	..do.....	12.8	4.2
36430 66	Other than single pole (including but not limited to double pole, 3-way, 4-way).....	..do.....		
36430 67	Mercury.....	..do.....	13.1	5.6
36430 68	All other general use switches (including but not limited to surface-mounted).....	..do.....	8.2	3.0
	Special purpose switches (except dimmers):			
36430 70	Appliance and fixture (including pendant and canopy types and variable speed controls).....	..do.....	43.8	16.0
36430 36	Precision (1/8" gap or less snap-acting switches (excluding limit switches).....	..do.....	161.3	102.5
36430 72	Aircraft types.....	..do.....	161.0	75.9
36430 76	Automotive types.....	..do.....	81.2	22.2
36430 77	All other special purpose switches (including but not limited to foot actuated) excluding industrial-control type)--light sensing and signal-actuated.....	..do.....	27.3	14.0
	Dimmers:			
	Incandescent:			
36430 93	Infinitely variable--600 watts or less.....	..do.....	3.5	6.7
36430 94	Infinitely variable--over 600 watts.....	..do.....		
36430 95	All other types (including but not limited to portable lamps and high-low switches).....	..do.....		
36430 96	Fluorescent starters.....	..do.....	24.2	3.2
36430 97	Terminal blocks.....	..do.....	(NA)	32.8
36430 61	Lightning arresters for AC power transmission systems and substations U.S. designation 10 KA series A.....	.....	(X)	20.3
36430 62	Lightning arresters for AC power transmission systems and substations SMA series 2.5 KA and 1.5 KA.....	.....	(X)	26.0
36430 69	Choke coils and all other protective devices, n.e.c. (including devices for railway signaling power circuit).....	.....	(X)	7.2
36430 73	Rail bonds for both propulsion and signal circuits.....	.....		
36430 75	Metal contacts, precious and other.....	Billion units.....		
	Wire connectors (including connectors used under national electrical applications):			
36430 82	Pressure connectors, where pressure is applied by screw, cone or other mechanical device.....	Million units.....	(NA)	60.6
36430 83	Compression connectors: uninsulated terminals and splicers, tool installed.....	..do.....	(NA)	65.4
36430 84	Preinsulated terminals and splicers, tool installed.....	..do.....	(NA)	39.5
36430 86	Banded or strip terminals and splicers, machine installed.....	..do.....	(NA)	64.3
36430 87	Pigtail connectors (including wire nuts).....	..do.....	(NA)	17.3
36430 88	Blade or pin type, separable terminations and splicers.....	..do.....	(NA)	34.8
36430 89	Other wire connectors, n.e.c., (including solder type).....	..do.....	(NA)	41.4
36430 91	Lightning rods.....	.....	(X)	2.8
36430 92	Overhead trolley line material (except pole and transmission line construction materials and expansion plugs for roof bolting in mines).....	.....	(X)	7.6
36430 99	Miscellaneous (including but not limited to combination devices, adaptors, current taps, surface extensions, and rosettes).....	.....	(X)	63.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value (million dollars)
			1967	
3643- --	CURRENT-CARRYING WIRING DEVICES:			
	Current-Carrying Wiring Devices, Including Lightning Rods: <sup>1</sup>			
36430 00	As reported in census of manufactures.....		(X)	789.8
	As reported on Current Industrial Reports series MA-36K.....		(X)	717.2
	Lampholders:			
	Incandescent (threaded and lumitive only):			
36430 01	Metal outer shell lampholders, key, keyless, push through and pull types—medium size only (excluding outer box type and socket interiors).....	Million units.....	68.7	10.5
36430 02	Outlet box lampholders, pull and keyless types—medium size only.....	...do.....	5.0	1.8
36430 03	All other lampholders (including lumiline, weatherproof, temporary, socket interiors, etc.) all sizes.....	...do.....	252.3	24.0
36430 05	Fluorescent (all types).....	...do.....	188.9	14.4
	Convenience and power outlets:			
	Flush (all types, designed for mounting in switch or outlet boxes):			
36430 11	15 amperes and under (nonlocking type).....	...do.....	108.9	23.5
36430 12	15 amperes and under (locking type).....	...do.....	.9	1.0
36430 13	Over 15 amperes (nonlocking type).....	...do.....	24.9	9.3
36430 15	Over 15 amperes (locking type).....	...do.....	2.2	3.1
36430 17	Appliance and special application outlets (installed generally as a component part of an electrical appliance or piece of electrical equipment).....	...do.....	35.5	5.9
36430 14	Surface raceway outlets.....	...do.....	46.5	11.7
36430 19	Surface (except raceway) outlets, and all other outlets (including pin and sleeve, and circuit breaking types)....	...do.....		
	Attachment plug caps, connector bodies, and motor bases, adapters, and miscellaneous current taps:			
36430 21	Nonlocking type.....		(X)	27.7
36430 22	Locking type.....	Million units.....	13.9	10.1
	Switches (except knife, time, solenoid, automotive and air- craft):			
36430 23	Electric range and oven controls (infinite and stop).....	...do.....	9.6	4.2
36430 24	All other appliances and specific application switches and variable speed controls (installed generally as a component part of an electrical appliance or piece of electrical equipment, except precision snap-acting switch type).....	...do.....	105.1	73.9
	General purpose flush switches (designed for mounting in switch or outlet boxes):			
36430 25	15 amperes and under (except incandescent dimmers).....	...do.....	56.7	17.8
36430 26	Incandescent dimmers, 15 amperes and under.....	...do.....	12.2	8.6
36430 27	Over 15 amperes (all types).....	...do.....		
36430 36	Precision (1/8" gap or less) snap-acting switches, excluding limit switches.....	...do.....	73.2	72.9
36430 39	All other (including incandescent dimmers, 15 amperes and under low voltage remote control, surface, canopy, fixture, and portable lamp switches-except knife, time, solenoid, and automotive switches).....		99.6	25.8
	Fluorescent starters:			
36430 52	Cartridge (replaceable).....	Million units.....	53.7	5.7
36430 53	Push-button momentary contract switch.....	...do.....		
36430 61	Lightning arresters for AC power transmission systems and substations 5MA series 2.5KA and 1.5KA.....		(X)	18.6
36430 62	Light arresters for AC power distribution systems and sub- stations 5MA series 2.5KA and 1.5KA.....		(X)	17.7
36430 69	Choke coils and all other protective devices, n.e.c., (includ- ing devices for railway signaling power circuit).....		(X)	5.0
36430 73	Rail bonds for both propulsion and signal circuits.....		(X)	2.0
36430 75	Metal contacts, precious and other.....	Billion units.....	4.9	75.5
	Wire connectors (include connectors used under national electrical applications):			
36430 82	Pressure connectors, where pressure is applied by screw, cone or other mechanical device.....	Million units.....	(NA)	54.9
36430 83	Compression connectors: uninsulated terminals and splicers, tool installed.....	...do.....	(NA)	41.7
36430 84	Preinsulated terminals and splicers, tool installed.....	...do.....	(NA)	26.2
36430 86	Branded or strip terminals and splicers, machine installed..	...do.....	(NA)	28.9
36430 87	Pigtail connectors (including wire nuts).....	...do.....	(NA)	4.0
36430 88	Blade or pin type, separable terminations and splicers.....	...do.....	(NA)	9.5
36430 89	Other wire connectors, n.e.c., (including solder type).....	...do.....	(NA)	31.6
36430 91	Lightning rods.....		(X)	2.0
36430 92	Overhead trolley line material (except pole-line hardware and expansion shells and plugs for roof bolting in mines).....		(X)	7.1
36430 98	Other current-carrying wiring devices, including rosettes, etc.		(X)	40.4

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3644- --	NONCURRENT-CARRYING WIRING DEVICES, TOTAL.....		(X)	832.7	(X)	548.6
	Pole Line and Transmission Hardware: <sup>1</sup>					
36441 00	As reported in the census of manufactures.....		(X)	222.3	(X)	130.2
	As reported in Current Industrial Reports series MA-36K.....		(X)	228.9	(X)	131.9
36441 12	Pole and transmission line construction materials, also known as overhead and underground line hardware for electric trans- mission, distribution, and communication lines (excluded are pole and transmission line anchors and pole transmission line construction materials where such materials are not otherwise commercially available).....		(X)	156.7	(X)	98.4
36441 13	Pole and transmission line anchors.....		(X)	3.8	(X)	4.4
36441 14	Pole and transmission line construction materials, manufactured to specification, where such materials are not otherwise commercially available.....		(X)	48.0	(X)	8.1
36441 51	Suspension hardware for high voltage insulators (including clamps and fittings, strain yokes and fittings).....		(X)	20.4	(X)	21.1
	Electrical Conduit and Conduit Fittings: <sup>1</sup>					
36442 00	As reported in the census of manufactures.....		(X)	393.7	(X)	306.9
	As reported in Current Industrial Reports series MA-36K.....		(X)	408.2	(X)	313.9
	Rigid conduit (standard weight), metal only, including couplings, nipples, bends, and elbows:					
36442 21	Steel.....	1,000 s. tons.	308.6	90.9	354.6	87.9
36442 25	Aluminum.....	..do.....				
36442 26	Other metal conduit.....	..do.....	11.3	8.6	19.8	15.6
36442 27	Electrical metallic tubing.....	..do.....	248.8	87.7	213.7	51.3
36442 33	Flexible steel conduit.....	Million ft....	86.8	9.9	86.8	8.0
	Raceways and wireways, including fittings, metal:					
36442 34	Surface.....				(X)	6.7
36442 37	Underfloor.....		(X)	41.0	(X)	15.5
36442 38	Ventilated cable tray and accessories.....				(X)	10.9
	Rigid conduit fittings, excluding couplings, nipples, bends, and elbows:					
36442 51	Cast conduit bodies, covers, and gaskets.....		(X)	29.1		
36442 52	All other rigid conduit fittings.....		(X)	23.2	(X)	45.9
	EMT fittings, couplings and connectors:					
36442 56	Gland type.....		(X)	12.1		
36442 57	Set-screw type.....		(X)	12.7	(X)	17.8
36442 58	All others.....		(X)	2.0		
36442 44	Service entrance caps, ells, and conductors.....		(X)	9.3	(X)	4.6
	Cable, cord, and flexible conduit fittings for:					
36442 71	Armored cable, metallic sheathed cable, and flexible conduit fittings, including liquid-tight.....		(X)	29.4		
36442 72	Nonmetallic sheathed cable and cord fittings.....		(X)	16.8	(X)	60.2
36442 46	Other electric metal conduit and conduit fittings.....		(X)	14.3		
	Switch and outlet wallplates:					
36442 63	Metallic.....	Million units.	48.4	6.4		
36442 66	Nonmetallic.....	..do.....	162.2	15.0	(NA)	9.7
	Other Noncurrent-Carrying Wiring Devices and Supplies: <sup>1</sup>					
36443 00	As reported in the census of manufactures.....		(X)	195.9	(X)	98.6
	As reported in Current Industrial Reports series MA-36K.....		(X)	196.6	(X)	93.5
	Stamped metal boxes, covers, and accessories, including stamped conduit boxes:					
36443 31	Switch and receptacle boxes.....	Million units.	120.4	49.6	114.5	27.3
36443 32	Outlet boxes.....	..do.....	138.8	33.1	136.9	23.5
36443 33	Covers.....	..do.....	86.6	18.4	(NA)	5.9
36443 34	Supports, bar hangers, and other accessories.....		(X)	24.2	(X)	11.5
	Cast metal boxes, covers, gaskets, and accessories:					
36443 41	FS and FD switch and receptacle type.....		(X)	8.4		
36443 42	Outlet type.....		(X)	8.9	(X)	18.8
36443 43	Junction type.....		(X)	25.7		
36443 37	Plastic boxes and covers.....		(X)	23.5	(X)	6.4
36443 38	Floor boxes and covers.....		(X)	4.9		
36440 00	Noncurrent-carrying wiring devices, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	16.7	(X)	10.9
36440 02	Noncurrent-carrying wiring devices, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.1	(X)	1.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3645- --	RESIDENTIAL LIGHTING FIXTURES, TOTAL.....	746.1	457.8
36451 00	Residential-Type Electric Fixtures, Except Portable: <sup>1</sup> As reported in the census of manufactures.....	291.9	190.5
	As reported in Current Industrial Reports series MA-36L.....	287.9	180.5
	Incandescent, excluding portable lamps, PAR lampholders and floodlights: Interior, including bath or kitchen:		
36451 11	Ceiling or pendant.....	185.0	114.5
36451 13	Wall or bracket.....	38.6	26.5
	Outdoor:		
36451 15	Designed for attachment to house.....	29.0	18.3
36451 17	Not designed for attachment to house (garden, patio, and yard).....	15.6	9.7
36451 61	Fluorescent (except portable).....	19.7	11.5
36457 --	Portable Residential-Type Lighting Fixtures and Parts and Accessories for Residential Lighting Fixtures.....	320.9	176.3
	Incandescent portable lamps, complete: Complete with shades:		
36457 21	Floor, bridge, and torch lamps.....	27.4	41.6
36457 22	Wall lamps, including adjustable types.....	35.5	11.7
36457 23	Table lamps.....	166.1	78.3
36457 29	Other, including boudoir.....	32.3	12.0
36457 32	Lamps sold without shades, including floor, bridge, table, etc.....	16.8	6.2
36457 61	Portable lamps (desk, etc.), fluorescent.....	15.3	13.6
36457 71	Parts and accessories for residential lighting fixtures.....	15.1	(NA)
36457 00	Portable residential-type lighting fixtures and parts and accessories for residential lighting fixtures, n.s.k.....	12.4	12.9
36450 00	Residential lighting fixtures, n.s.k., for establishments with 10 employees or more. (See note.) <sup>3</sup> ...	109.3	61.0
36450 02	Residential lighting fixtures, n.s.k., for establishments with less than 10 employees. (See note.) <sup>3</sup> ...	24.0	30.0
3646- --	COMMERCIAL LIGHTING FIXTURES, TOTAL.....	701.8	<sup>4</sup> 506.0
36462 11	Commercial and Institutional Type Electric Lighting Fixtures: <sup>1</sup> As reported in census of manufactures.....	527.2	385.4
	As reported in Current Industrial Reports series MA-36L.....	502.3	395.5
	Incandescent fixtures: Utilitarian and ornamental types, except portable (primarily for public buildings, banks, stores, office buildings, schools, auditoriums, churches, theaters, etc.):		
36462 11	Surface or pendant.....	26.1	27.1
36462 15	Recessed.....	65.0	35.4
36462 18	Specialized custom lighting fixtures, chandeliers, church lighting, etc. (except portable)....	9.9	10.1
36462 19	Other incandescent fixtures, such as interior display, portable lamps, and PAR lamp holders....	22.2	19.9
36462 31	Mercury and other high-intensity discharge types.....	4.6	(NA)
	Fluorescent (except portable):		
36462 51	Recessed air handling (including heat extraction version).....	43.2	22.0
36462 53	Recessed nonair handling (including heat extraction versions).....	135.7	93.0
36462 54	Striplights.....	78.8	48.2
36462 55	Ceiling systems (including luminous ceilings).....	11.9	7.5
36462 56	Plastic wraparound.....	54.7	48.6
36462 57	Wall mounted fixtures.....	1.8	
36462 58	Surface and pendant, louvered and lens type.....	25.5	80.9
36462 59	Enclosed and gasketed.....	3.8	
36462 60	All other (including indirect).....	12.9	
36462 61	Indoor signs (including electro-luminescence (exit, directional, etc.).....	6.0	2.9
36463 --	Industrial-Type Electric Lighting Fixtures, Including Parts and Accessories for Commercial, Industrial, and Institutional Fixtures <sup>1</sup> .....	162.6	<sup>4</sup> 120.6
36463 10	Industrial-type electric fixtures: As reported in census of manufactures.....	140.0	120.6
	As reported in Current Industrial Reports series MA-36L.....	146.4	114.5
	General lighting (except portable):		
36463 11	Incandescent.....	5.9	13.4
36463 13	Fluorescent.....	71.8	62.8
36463 14	Mercury and other high-intensity discharge types (including integrally mounted and remote ballasts).....	30.5	17.7
	Other industrial types such as explosion-proof, vapor-proof, dust-tight, etc. (including enclosed and gasketed):		
36463 16	Incandescent (including portable).....	26.5	13.4
36463 19	Mercury and other high-intensity discharge types (including integrally mounted and remote ballasts).....		(NA)
36463 17	Fluorescent (including portable).....		7.0
36463 63	Parts and accessories for commercial, industrial, and institutional lighting fixtures <sup>5</sup> .....	22.6	(NA)
36460 00	Commercial lighting fixtures, n.s.k., for establishments with 10 employees or more. (See note.)....	4.5	(NA)
36460 02	Commercial lighting fixtures, n.s.k., for establishments with less than 10 employees. (See note.)....	7.5	(NA)

See footnotes at end of table....

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3647- --	VEHICULAR LIGHTING EQUIPMENT, TOTAL.....	358.1	226.1
	Electric, Including Parts and Accessories: <sup>1</sup>		
36470 10	As reported in census of manufactures.....	356.7	226.1
	As reported in Current Industrial Reports series MA-36L.....	347.1	221.7
	Motor vehicle incandescent lighting equipment:		
	Spot, fog and auxiliary equipment:		
36470 01	Shipments for domestic replacement.....	26.3	6.2
36470 03	Shipments to U.S. motor vehicle manufacturers for use in original equipment.....		
36470 05	Shipments for export.....		
	Other motor vehicle lighting equipment (excluding bulbs, parking lights, dome lights, taillights, etc.):		
36470 22	Shipments for domestic replacement.....	673.5	179.9
36470 23	Shipments to U.S. motor vehicle manufacturers for use in original equipment.....	206.3	
36470 24	Shipments for export.....	(6)	
36470 29	Other than motor vehicle lighting equipment (including fluorescent fixtures, such as aircraft, watercraft, railway locomotive, railroad car, streetcar, etc.).....	41.0	35.6
36470 65	Parts and accessories for vehicular lighting fixtures.....	1.4	(NA)
3648- --	LIGHTING EQUIPMENT, N.E.C., TOTAL.....	488.0	321.8
	Outdoor Lighting Equipment: <sup>1</sup>		
36485 00	As reported in the census of manufactures.....	316.5	199.2
	As reported in Current Industrial Reports series MA-36L.....	291.3	192.5
36485 11	Street and highway lighting luminaries (including bridge and tunnel lighting):		
	Incandescent (filament and quartz iodine).....	4.6	2.6
	Mercury and other high-intensity discharge types, including integrally-mounted and remote ballasts:		
36485 13	Open.....	24.7	18.3
36485 14	Enclosed.....	45.1	35.5
36485 15	Fluorescent.....	4.2	5.5
36485 16	Special purpose luminaries for highmast or tower lighting, excluding value of poles.....	(7)	(NA)
	Area and sports lighting luminaries:		
	Floodlights, excluding PAR lampholders, but including service station floodlights, under water, fountain, and swimming pool:		
36485 17	Incandescent, filament.....	4.0	12.0
36485 18	Incandescent, quartz iodine.....	8.1	6.4
36485 19	Mercury and other high-intensity discharge types, including integrally-mounted and remote ballasts.....	66.3	20.2
36485 21	Fluorescent.....	18.9	12.6
	Decorative area and facade lighting fixtures (including post top, wall mounted and PAR lamp- holders:		
36485 23	Incandescent, filament and quartz iodine.....	5.7	2.4
36485 25	Mercury and other high-intensity discharge types, including integrally-mounted and remote ballasts.....	14.8	9.0
36485 27	Fluorescent.....		
36485 31	Aviation ground lighting equipment (for fixed based airports):		
	Runway approach lighting, including fixtures, regulators, insulating transformers, isolating lamp transformers, beacons, wind tees, and cones.....	1.5	3.0
36485 33	Runway (except runway approach), taxiway, and ramp light (including fixtures, regulators, and isolating lamp transformers).....	6.2	4.7
	Poles, standards, newels, brackets, and accessories:		
	For street and highway lighting:		
36485 35	Metal, concrete, and integral brackets.....	37.2	28.1
36485 37	Wood pole brackets.....	3.3	2.3
36485 39	For area and sports lighting.....	18.7	9.9
36485 41	For other outdoor lighting.....	5.8	4.3
	Other floodlighting and area lighting equipment:		
36485 43	Spotlights, including indoor and stage, but excluding vehicular.....	6.5	7.9
36485 45	All other outdoor lighting equipment.....	715.8	7.7
36489 --	Other Electric and Nonelectric Lighting Equipment (Including Hand-Portable Equipment) and Parts and Accessories.....	164.7	122.6
	Incandescent hand-portable lighting equipment, except parts:		
36489 11	Flashlights and flashlight lanterns (one to five cells).....	41.2	30.7
36489 19	Other, such as miners' lights, emergency warning lights, and generator flashlights.....	29.4	13.5
36489 21	Other electric lighting equipment, including electrical discharge such as mercury vapor (other than street and highway lighting equipment) and sodium vapor but excluding signs.....	18.9	6.7
36489 31	Other incandescent electric lighting equipment, including marine markers or beacons, railway and other vehicular route lighting equipment, etc., except parts and accessories.....	10.2	12.5
36489 75	Other fluorescent lighting equipment, complete units, including processing and technical equipment.	3.9	7.7
36489 69	Parts and accessories for lighting fixtures, n.e.c.....	9.8	18.3

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3648- --	LIGHTING EQUIPMENT, N.E.C.--Continued		
36489 --	Other Electric and Nonelectric Lighting Equipment (Including Hand-Portable Equipment) and Parts and Accessories--Continued		
	Nonelectric lighting equipment, including parts:		
36489 81	Kerosene and gasoline lamps and lanterns.....	20.1	14.2
36489 85	Parts and accessories for nonelectric lighting equipment, including reflectors and fittings, incandescent mantles, etc.....	7.5	4.7
36489 89	Other nonelectric lighting fixtures and equipment, complete units, including carbide lamps of all types.....	2.5	.8
36489 91	Ultraviolet and infrared health lamp fixtures, excluding bulbs sold separately.....	2.2	.3
36489000	Other electric and nonelectric lighting equipment (including hand-portable equipment) and parts and accessories, n.s.k.....	19.0	13.0
36480 00	Lighting equipment, n.e.c., n.s.k. (Represents establishments with 10 employees or more.).....	1.6	(NA)
36480 02	Lighting equipment, n.e.c., n.s.k. (Represents establishments with less than 10 employees.).....	5.2	(NA)

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>Product code 36410 63, cold cathode fluorescent lamps, etc., is included with product code 36410 10, electric lamps (bulbs only), as reported in the census of manufactures.

<sup>3</sup>Also includes products not specified by kind for industries 3646, 3647, and 3648. These industries include, respectively: Commercial, industrial, and institutions electric lighting fixtures; vehicular lighting equipment; and lighting equipment, not elsewhere classified.

<sup>4</sup>Data for 1967 are not comparable with data for 1972; 1967 data are not available for product codes 36463 31, 36463 63, 36460 00, and 36460 02.

<sup>5</sup>Not included on MA-36L.

<sup>6</sup>Data for product code 36470 24 are combined with product code 36470 22 to avoid disclosing figures for individual companies.

<sup>7</sup>Data for 36485 16 combined with code 36485 45 to avoid disclosing figures for individual companies.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CURRENT-CARRYING WIRING DEVICES, INCLUDING LIGHTNING RODS (36430)			CURRENT-CARRYING WIRING DEVICES, INCLUDING LIGHTNING RODS (36430)--Continued		
United States.....	1,206.8	789.7	South Region.....	98.8	40.4
Northeast Region.....	628.7	449.4	South Atlantic Division.....	68.3	FF
New England Division.....	269.2	(NA)	Maryland.....	AA	(NA)
Maine.....	EE	(NA)	North Carolina.....	42.9	(NA)
New Hampshire.....	BB	(NA)	South Carolina.....	BB	(NA)
Massachusetts.....	65.5	68.1	Georgia.....	CC	(NA)
Rhode Island.....	EE	(NA)	Florida.....	15.9	2.5
Connecticut.....	134.4	96.0	East South Central Division.....	EE	EE
Middle Atlantic Division.....	359.5	251.4	Kentucky.....	AA	(NA)
New York.....	164.0	121.7	Tennessee.....	AA	(NA)
New Jersey.....	78.5	64.9	Alabama.....	EE	(NA)
Pennsylvania.....	117.0	64.7	West South Central Division.....	EE	CC
North Central Region.....	351.3	275.3	Arkansas.....	AA	(NA)
East North Central Division.....	302.1	241.0	Texas.....	12.3	4.7
Ohio.....	76.8	55.2			
Indiana.....	38.6	35.5	West Region.....	85.8	24.7
Illinois.....	169.0	111.0	Mountain Division.....	EE	AA
Michigan.....	CC	12.8	Idaho.....	CC	(NA)
Wisconsin.....	12.1	25.9	Arizona.....	CC	(NA)
West North Central Division.....	49.2	34.3			
Minnesota.....	13.3	12.9	Pacific Division.....	GG	FF
Missouri.....	FF	21.4	Washington.....	BB	(NA)
Kansas.....	AA	(NA)	California.....	GG	23.2

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
POLE LINE AND TRANSMISSION HARDWARE (36441)			OTHER NONCURRENT-CARRYING WIRING DEVICES AND SUPPLIES (36443)		
United States.....	222.3	130.2	United States.....	195.9	98.6
Northeast Region.....	47.2	32.0	Northeast Region.....	39.2	27.8
New England Division.....	1.5	5.1	New England Division.....	5.8	2.0
New Hampshire.....	AA	AA	Vermont.....	AA	(NA)
Middle Atlantic Division.....	45.6	26.9	Massachusetts.....	3.8	(NA)
New York.....	EE	17.9	Connecticut.....	AA	1.1
New Jersey.....	AA	AA	Middle Atlantic Division.....	33.4	25.8
Pennsylvania.....	27.4	EE	New York.....	16.2	4.7
North Central Region.....	106.4	72.3	New Jersey.....	CC	6.9
East North Central Division.....	GG	48.5	Pennsylvania.....	EE	14.2
Ohio.....	15.8	EE	North Central Region.....	107.1	45.0
Illinois.....	FF	22.8	East North Central Division.....	GG	47.6
Wisconsin.....	FF	CC	Ohio.....	BB	2.9
West North Central Division.....	FF	23.9	Indiana.....	FF	EE
Minnesota.....	EE	BB	Illinois.....	41.6	30.7
Missouri.....	FF	BB	Michigan.....	3.3	BB
Nebraska.....	AA	AA	West North Central Division.....	GG	11.4
South Region.....	58.3	14.4	Minnesota.....	GG	CC
South Atlantic Division.....	8.1	BB	Missouri.....	BB	AA
South Carolina.....	AA	(NA)	South Region.....	29.9	17.5
Georgia.....	CC	BB	South Atlantic Division.....	FF	EE
East South Central Division.....	29.4	10.0	West Virginia.....	FF	EE
Tennessee.....	AA	(NA)	North Carolina.....	AA	(NA)
Alabama.....	13.2	BB	East South Central Division.....	19.1	EE
Mississippi.....	EE	CC	Kentucky.....	CC	CC
West South Central Division.....	20.8	CC	Tennessee.....	EE	CC
Arkansas.....	EE	(NA)	West South Central Division.....	AA	1.4
Texas.....	EE	CC	West Region.....	19.7	8.2
West Region.....	10.4	11.4	Pacific Division.....	EE	8.2
Pacific Division.....	10.4	11.4	California.....	EE	CC
California.....	10.4	11.4			
ELECTRICAL CONDUIT AND CONDUIT FITTINGS (36442)			RESIDENTIAL-TYPE ELECTRIC FIXTURES, EXCEPT PORTABLE (36451)		
United States.....	393.7	306.9	United States.....	291.9	(NA)
Northeast Region.....	169.6	133.7	Northeast Region.....	119.9	(NA)
New England Division.....	32.3	19.5	New England Division.....	CC	(NA)
Massachusetts.....	CC	2.5	Massachusetts.....	CC	(NA)
Rhode Island.....	BB	1.4	Rhode Island.....	AA	(NA)
Connecticut.....	23.6	15.6	Middle Atlantic Division.....	GG	(NA)
Middle Atlantic Division.....	137.3	114.2	New York.....	FF	(NA)
New York.....	66.8	FF	New Jersey.....	32.6	(NA)
New Jersey.....	FF	FF	Pennsylvania.....	50.3	(NA)
Pennsylvania.....	FF	46.3	North Central Region.....	69.6	(NA)
North Central Region.....	130.9	101.6	East North Central Division.....	67.8	(NA)
East North Central Division.....	119.3	95.3	Ohio.....	30.7	(NA)
Ohio.....	31.0	21.8	Indiana.....	CC	(NA)
Indiana.....	CC	EE	Illinois.....	19.1	(NA)
Illinois.....	65.6	49.9	Michigan.....	AA	(NA)
Michigan.....	EE	EE	Wisconsin.....	EE	(NA)
West North Central Division.....	11.7	6.3	West North Central Division.....	1.8	(NA)
Minnesota.....	AA	AA	South Region.....	48.3	(NA)
Missouri.....	CC	EE	South Atlantic Division.....	CC	(NA)
South Region.....	23.7	55.2	Georgia.....	BB	(NA)
South Atlantic Division.....	FF	FF	East South Central Division.....	FF	(NA)
Maryland.....	BB	CC	Kentucky.....	FF	(NA)
West Virginia.....	FF	EE	West South Central Division.....	CC	(NA)
East South Central Division.....	AA	AA	Arkansas.....	BB	(NA)
Tennessee.....	AA	(NA)	Texas.....	3.5	(NA)
West South Central Division.....	EE	EE	West Region.....	54.1	(NA)
Texas.....	EE	EE	Pacific Division.....	54.1	(NA)
West Region.....	36.5	16.4	California.....	GG	(NA)
Pacific Division.....	36.5	16.4			
Oregon.....	BB	(NA)			
California.....	FF	16.4			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PORTABLE RESIDENTIAL-TYPE LIGHTING FIXTURES AND PARTS AND ACCESSORIES FOR RESIDENTIAL LIGHTING FIXTURES (36457)			INDUSTRIAL-TYPE ELECTRIC LIGHTING FIXTURES, INCLUDING PARTS AND ACCESSORIES FOR COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL FIXTURES (36463)		
United States.....	322.2	(NA)	United States.....	162.6	(NA)
Northeast Region.....	172.7	(NA)	Northeast Region.....	58.4	(NA)
New England Division.....	7.8	(NA)	New England Division.....	6.4	(NA)
Massachusetts.....	CC	(NA)	Massachusetts.....	CC	(NA)
Connecticut.....	1.6	(NA)	Middle Atlantic Division.....	52.0	(NA)
Middle Atlantic Division.....	164.9	(NA)	New York.....	24.1	(NA)
New York.....	71.1	(NA)	New Jersey.....	5.1	(NA)
New Jersey.....	31.4	(NA)	Pennsylvania.....	22.7	(NA)
Pennsylvania.....	62.4	(NA)			
North Central Region.....	76.4	(NA)	North Central Region.....	38.9	(NA)
East North Central Division.....	70.6	(NA)	East North Central Division.....	32.7	(NA)
Ohio.....	8.6	(NA)	Ohio.....	19.3	(NA)
Indiana.....	BB	(NA)	Indiana.....	AA	(NA)
Illinois.....	56.2	(NA)	Illinois.....	11.2	(NA)
Michigan.....	AA	(NA)	West North Central Division.....	6.2	(NA)
Wisconsin.....	AA	(NA)	Missouri.....	6.2	(NA)
West North Central Division.....	5.8	(NA)			
Missouri.....	CC	(NA)	South Region.....	47.4	(NA)
South Region.....	31.3	(NA)	South Atlantic Division.....	25.1	(NA)
South Atlantic Division.....	14.2	(NA)	North Carolina.....	10.8	(NA)
North Carolina.....	CC	(NA)	Georgia.....	EE	(NA)
Georgia.....	AA	(NA)	Florida.....	AA	(NA)
Florida.....	6.6	(NA)	East South Central Division.....	15.1	(NA)
East South Central Division.....	EE	(NA)	Tennessee.....	CC	(NA)
Kentucky.....	BB	(NA)	Mississippi.....	CC	(NA)
Tennessee.....	BB	(NA)	West South Central Division.....	7.2	(NA)
Mississippi.....	CC	(NA)	Texas.....	7.2	(NA)
West South Central Division.....	CC	(NA)			
Arkansas.....	BB	(NA)	West Region.....	18.0	(NA)
Texas.....	AA	(NA)	Mountain Division.....	CC	(NA)
West Region.....	41.6	(NA)	Colorado.....	CC	(NA)
Pacific Division.....	FF	(NA)	Utah.....	AA	(NA)
California.....	FF	(NA)	Pacific Division.....	CC	(NA)
			California.....	CC	(NA)
COMMERCIAL AND INSTITUTIONAL-TYPE ELECTRIC LIGHTING FIXTURES (36462)			VEHICULAR LIGHTING EQUIPMENT (INCLUDING PARTS AND ACCESSORIES) (36470)		
United States.....	527.2	(NA)	United States.....	358.1	(NA)
Northeast Region.....	171.7	(NA)	Northeast Region.....	43.0	(NA)
New England Division.....	19.1	(NA)	New England Division.....	5.6	(NA)
Massachusetts.....	17.4	(NA)	Massachusetts.....	BB	(NA)
Connecticut.....	AA	(NA)	Connecticut.....	BB	(NA)
Middle Atlantic Division.....	152.6	(NA)	Middle Atlantic Division.....	37.4	(NA)
New York.....	40.7	(NA)	New York.....	29.5	(NA)
New Jersey.....	56.0	(NA)	New Jersey.....	CC	(NA)
Pennsylvania.....	55.9	(NA)	Pennsylvania.....	AA	(NA)
North Central Region.....	99.1	(NA)			
East North Central Division.....	70.7	(NA)	North Central Region.....	295.7	(NA)
Ohio.....	29.6	(NA)	East North Central Division.....	GG	(NA)
Indiana.....	AA	(NA)	Ohio.....	GG	(NA)
Illinois.....	36.6	(NA)	Indiana.....	GG	(NA)
Michigan.....	AA	(NA)	Illinois.....	29.6	(NA)
Wisconsin.....	1.6	(NA)	Michigan.....	15.9	(NA)
West North Central Division.....	28.3	(NA)	Wisconsin.....	AA	(NA)
Minnesota.....	BB	(NA)	West North Central Division.....	CC	(NA)
Missouri.....	FF	(NA)	Missouri.....	CC	(NA)
South Region.....	167.1	(NA)			
South Atlantic Division.....	82.2	(NA)	South Region.....	12.2	(NA)
Maryland.....	AA	(NA)	South Atlantic Division.....	BB	(NA)
North Carolina.....	CC	(NA)	Delaware.....	BB	(NA)
Georgia.....	GG	(NA)	Florida.....	BB	(NA)
Florida.....	3.8	(NA)	West South Central Division.....	CC	(NA)
East South Central Division.....	71.4	(NA)	Texas.....	CC	(NA)
Kentucky.....	AA	(NA)			
Tennessee.....	EE	(NA)	West Region.....	7.2	(NA)
Mississippi.....	FF	(NA)	Pacific Division.....	CC	(NA)
West South Central Division.....	13.5	(NA)	Washington.....	BB	(NA)
Arkansas.....	AA	(NA)	California.....	BB	(NA)
Texas.....	EE	(NA)			
West Region.....	89.4	(NA)			
Mountain Division.....	BB	(NA)			
Utah.....	BB	(NA)			
Pacific Division.....	GG	(NA)			
Washington.....	EE	(NA)			
California.....	75.7	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OUTDOOR LIGHTING EQUIPMENT (36485)			OTHER ELECTRIC AND NONELECTRIC LIGHTING EQUIPMENT (INCLUDING HAND PORTABLE EQUIPMENT) AND PARTS AND ACCESSORIES (36489)		
United States.....	316.5	(NA)	United States.....	164.7	(NA)
Northeast Region.....	82.6	(NA)	Northeast Region.....	81.1	(NA)
New England Division.....	9.4	(NA)	New England Division.....	55.9	(NA)
Massachusetts.....	BB	(NA)	New Hampshire.....	BB	(NA)
Connecticut.....	BB	(NA)	Vermont.....	EE	(NA)
Middle Atlantic Division.....	73.2	(NA)	Massachusetts.....	FF	(NA)
New York.....	17.8	(NA)	Connecticut.....	EE	(NA)
New Jersey.....	48.3	(NA)	Middle Atlantic Division.....	25.2	(NA)
Pennsylvania.....	7.1	(NA)	New York.....	12.0	(NA)
North Central Region.....	111.9	(NA)	New Jersey.....	6.9	(NA)
East North Central Division.....	GG	(NA)	Pennsylvania.....	6.2	(NA)
Ohio.....	52.2	(NA)	North Central Region.....	54.3	(NA)
Illinois.....	26.6	(NA)	East North Central Division.....	FF	(NA)
Michigan.....	1.1	(NA)	Ohio.....	3.4	(NA)
Wisconsin.....	EE	(NA)	Indiana.....	CC	(NA)
West North Central Division.....	EE	(NA)	Illinois.....	22.6	(NA)
Minnesota.....	CC	(NA)	West North Central Division.....	EE	(NA)
Iowa.....	AA	(NA)	Kansas.....	EE	(NA)
Missouri.....	AA	(NA)	South Region.....	11.6	(NA)
Nebraska.....	CC	(NA)	South Atlantic Division.....	BB	(NA)
South Region.....	93.1	(NA)	Maryland.....	AA	(NA)
South Atlantic Division.....	GG	(NA)	South Carolina.....	BB	(NA)
Virginia.....	CC	(NA)	East South Central Division.....	BB	(NA)
North Carolina.....	FF	(NA)	Kentucky.....	AA	(NA)
South Carolina.....	AA	(NA)	West South Central Division.....	CC	(NA)
East South Central Division.....	FF	(NA)	Oklahoma.....	AA	(NA)
Kentucky.....	BB	(NA)	Texas.....	BB	(NA)
Tennessee.....	BB	(NA)	West Region.....	17.6	(NA)
Alabama.....	AA	(NA)	Mountain Division.....	3.1	(NA)
Mississippi.....	EE	(NA)	New Mexico.....	BB	(NA)
West South Central Division.....	EE	(NA)	Pacific Division.....	14.5	(NA)
Texas.....	EE	(NA)	California.....	EE	(NA)
West Region.....	28.9	(NA)			
Pacific Division.....	FF	(NA)			
California.....	FF	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
36410	Electric lamps (bulbs), including sealed beam lamps.....	1,069.1	964.7	884.9	826.0	841.4	756.4	545.9	393.6
36430	Current-carrying wiring devices.....	1,206.8	(896.6)	893.2	905.9	827.7	789.8	561.8	448.5
3644	Noncurrent-carrying wiring devices.....	832.7	734.6	699.5	686.3	600.5	548.6	439.3	341.6
36441	Pole line and transmission hardware.....	222.3	182.6	181.2	176.7	148.4	130.2	97.9	81.2
36442	Electrical conduit and conduit fittings.....	393.7	339.7	316.2	386.6	346.2	306.9	242.2	201.3
36443	Other noncurrent-carrying wiring devices and supplies.....	195.9	200.9	192.8	119.4	102.9	98.6	92.8	59.1
36440	Noncurrent-carrying wiring devices, n.s.k.....	20.8	11.4	(9.3)	(3.6)	(3.0)	12.8	6.4	(X)
3645	Residential lighting fixtures.....	747.4	575.6	537.3	509.2	486.2	457.8	363.9	283.7
36451	Residential-type electric fixtures, except portable.....	291.9	285.9	258.2	240.4	225.2	190.5	158.8	114.8
36457	Portable residential-type lighting fixtures and parts.....	320.9	199.2	181.9	200.7	188.5	176.3	160.2	112.5
36450	Residential lighting fixtures, n.s.k.....	<sup>2</sup> 133.3	<sup>2</sup> 90.5	<sup>2</sup> (97.2)	<sup>2</sup> 68.1	<sup>2</sup> 72.5	<sup>2</sup> 91.0	<sup>2</sup> 44.9	<sup>2</sup> 56.4
3646	Commercial lighting fixtures.....	701.8	640.7	635.7	588.9	551.3	506.0	375.3	230.5
36462	Commercial and institutional-type electric lighting fixtures	527.2	479.5	466.1	441.9	423.4	385.4	299.2	168.1
36463	Industrial-type electric lighting fixtures and parts.....	162.6	161.2	169.6	147.0	127.9	120.6	76.1	62.4
36460	Commercial lighting fixtures, n.s.k.....	<sup>2</sup> 12.0	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
36470	Vehicular lighting equipment, including parts and accessories.....	<sup>2</sup> 358.1	<sup>2</sup> 288.2	<sup>2</sup> 232.0	<sup>2</sup> 290.5	<sup>2</sup> 281.5	<sup>2</sup> 226.1	<sup>2</sup> 157.4	<sup>2</sup> 106.0
3648	Lighting equipment, n.e.c.....	488.0	411.3	390.4	384.1	338.4	321.8	219.5	145.2
36485	Outdoor lighting equipment.....	316.5	247.3	223.5	235.5	212.7	199.2	134.8	76.3
36489	Other electric and nonelectric lighting equipment and parts	164.7	164.0	166.9	148.6	125.7	122.6	84.7	68.9
36480	Lighting equipment, n.e.c., n.s.k.....	<sup>2</sup> 6.8	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

(X) Not applicable.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Value of products, not specified by kind, for industries 3646, 3647, and 3648 are included in industry 3645 prior to 1972. All products not specified by kind for administrative records and most for other records are included in industry 3645 in 1972.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3641.--ELECTRIC LAMPS					
	Materials, components, parts, containers, and supplies, total	.....	(X)	344.8	(X)	227.8
335105	Brass millshapes and forms.....	Million lb....	(NA)	5.4	(NA)	.8
320313	Glass and glass products (including lamp bulb blanks).....	.....	(X)	94.8	(NA)	(NA)
260091	Paper and paperboard containers.....	.....	(X)	27.1	(X)	20.1
970099	All other materials, parts, containers, and supplies consumed....	.....	(X)	211.0	(X)	191.0
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....	.....	(X)	6.4	(X)	15.9
	INDUSTRY 3643.--CURRENT-CARRYING WIRING DEVICES					
	Materials, components, parts, containers, and supplies, total	.....	(X)	<sup>2</sup> 426.9	(X)	285.1
	Mill shapes and forms (except casting):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	1.8	.5	6.2	1.3
331012	Sheet and strip.....	...do.....	44.2	11.4	49.0	8.6
331017	Wire and wire products.....	...do.....	17.9	4.2	11.1	2.2
331019	All other carbon steel mill shapes and forms.....	...do.....	2.2	.7	.3	.2
331020	Alloy steel (except stainless).....	...do.....	.9	.4	6.3	2.6
	Stainless steel:					
331033	Sheet and strip.....	...do.....	2.3	2.6	1.6	2.0
331050	All other stainless steel mill shapes and forms.....	...do.....	1.3	2.9		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	6.9	(NA)	8.0
335791	Aluminum content.....	Million lb....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3643.--CURRENT-CARRYING WIRING DEVICES--Continued					
	Materials, components, parts, containers, and supplies--Con.					
	Mill shapes and forms (except casting)--Continued					
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	Million lb....	24.6	16.7	8.2	6.5
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	10.4	9.9	8.8	6.8
335143	Plate, sheet, and strip including military cups and discs....	...do.....	42.6	45.0	23.2	17.9
335152	Pipe and tube.....	...do.....	4.0	3.9	(NA)	2.0
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	17.0	7.6	2.5	1.2
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	...do.....	10.1	5.8	6.6	2.6
335008	All other aluminum mill shapes and form (wire, rolled rod and bar welded tubing, etc.).....	...do.....	1.9	.7	2.7	.9
	Refinery shapes:					
333122	Copper and copper-base alloy.....	1,000 s. tons..	4.5	5.2	3.0	3.0
333401	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
333348	Zinc and zinc-base alloy.....	...do.....	-	-	1.0	.4
	Scrap:					
999812	Copper and copper-base alloy.....	...do.....	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>3</sup>					
332011	Iron (gray and malleable).....	...do.....	.4	.4	5.1	1.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.5	5.8	(NA)	3.3
336200	Copper and copper-base alloy.....	...do.....	4.3	5.3	2.1	2.1
367408	Solid state semiconductors <sup>3</sup> .....	Million units..	15.5	3.4	(NA)	.2
282130	Thermoplastic resins, including modified resins (includes resin content of vinyls and dry bases for cellulose, polyethylenes, polypropylenes, styrenes, etc. Includes granules, pellets, powder, liquid, etc., and excludes sheets, rods, tubes and other shapes)	Million lb. (dry basis).	33.4	12.2	8.2	2.7
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.). Includes granules, pellets, powder, liquid, etc. and excludes sheets, rods, tubes, and other shapes.....	...do.....	36.7	9.6	24.2	7.6
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	218.8	(X)	<sup>2</sup> 141.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....	.....	(X)	41.9	(X)	60.1
	INDUSTRY 3644.--NONCURRENT-CARRYING WIRING DEVICES					
	Materials, components, containers, and supplies, total.....	.....	(X)	<sup>2</sup> 349.3	(X)	265.7
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons..	96.9	16.7	92.5	14.1
331012	Sheet and strip.....	...do.....	477.6	91.1	226.4	37.9
331017	Wire and wire products.....	...do.....	11.6	3.8	(NA)	3.6
331019	All other carbon steel mill shapes and forms.....	...do.....	226.7	45.3	284.6	32.8
331020	Alloy steel (except stainless).....	...do.....	1.1	.4	26.6	5.1
	Stainless steel:					
331033	Sheet and strip.....	...do.....	1.2	1.3		
331050	All other stainless steel mill shapes and forms.....	...do.....	.3	.5		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	8.4	5.2	2.2	1.7
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	...do.....	1.6	1.1	.9	.3
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	.8	.7	1.9	1.1
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	5.7	5.4		
335152	Pipe and tube.....	...do.....	.7	1.1		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....	5.4	2.3	10.5	3.8
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.)	...do.....	4.5	2.4		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	7.4	3.3		
	Refinery shapes:					
333122	Copper and copper-base alloy.....	1,000 s. tons..	3.4	2.6	3.3	2.9
333401	Aluminum and aluminum-base alloy.....	...do.....	6.6	3.1	3.9	1.9
333348	Zinc and zinc-base alloy.....	...do.....	25.1	9.2	19.5	5.6

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3644.--NONCURRENT-CARRYING WIRING DEVICES--Continued					
	Materials, components, containers, and supplies--Continued					
	Scrap:					
999812	Copper and copper-base alloy.....	1,000 s. tons..	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>3</sup>					
332011	Iron (gray and malleable).....	...do.....	10.1	7.8	8.4	5.8
336100	Aluminum and aluminum-base alloy.....	Million lb....	9.9	7.7	9.1	4.9
336200	Copper and copper-base alloy.....	...do.....	1.4	1.4	.6	.8
282130	Thermoplastic resins (modified resins including resin content of vinyls and dry basis for cellulose; polyethylenes, polypropy- lenes, styrenes, etc.; granules, pellets, powder, liquid, etc.; but excluding sheets, rods, tubes, and other shapes).	Million lb. (dry basis).	603.0	1.7	(D)	(D)
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.), including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes.....	...do.....	11.2	3.5		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	120.2	(X)	<sup>2</sup> 104.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....	.....	(X)	11.6	(X)	38.5
		Unit of measure	1972			
			Quantity	Delivered cost (million dollars)		
	INDUSTRY 3645.--RESIDENTIAL LIGHTING FIXTURES					
	Materials, components, parts, containers, and supplies, total	.....		(X)		344.3
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....		.5		.1
331012	Sheet and strip.....	...do.....		37.0		8.4
331017	Wire and wire products.....	...do.....		5.8		1.6
331015	Structural shapes.....	...do.....				
331013	Plates.....	...do.....		8.3		6.1
331019	All other carbon steel mill shapes and forms.....	...do.....				
331020	Alloy steel, except stainless.....	...do.....		.6		.6
	Stainless steel:					
331033	Sheet and strip.....	...do.....			(NA)	.7
331050	All other stainless steel mill shapes and forms.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (copper content).		5.5	}	5.0
335791	Aluminum content.....	Million lb.....		(NA)		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction).....	...do.....		.4		.6
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....		.3		.4
335143	Plate, sheet and strip, including military cups and discs....	...do.....		1.4		1.5
335152	Pipe and tubes.....	...do.....		2.0		1.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....		4.3		2.1
335405	Extruded shapes including extruded rod, bar, pipe, tube, etc.	...do.....		3.1		1.1
335008	All other aluminum mill shapes and forms (wired, rolled and bar, powder, welded tubing, etc.).....	.....		(X)		(Z)
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.....		(NA)		.3
	Castings (rough and semifinished): <sup>3</sup>					
332011	Iron (gray and malleable).....	...do.....		8.4		2.9
332045	Steel.....	...do.....		(NA)		1.9
336100	Aluminum and aluminum-base alloy.....	Million lb.....		12.5		5.2
336200	Copper and copper-base alloy.....	...do.....		.6		1.2
320313	Glass and glass products (including lamp bulb blanks).....	.....		(X)		38.2
282130	Thermoplastic resins (modified resins including resin content of vinyls and dry basis for cellulose; polyethylenes, polypropy- lenes, styrenes, etc.; granules, pellets, powder, liquid, etc.; but excluding sheets, rods, tubes, and other shapes).....	Mil. lb. (dry basis)...		(NA)		3.9
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.), including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes.....	...do.....		.6		.2
970099	All other materials and components, parts, containers, and sup- plies consumed.....	.....		(X)		168.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....	.....		(X)		92.4

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3646.--COMMERCIAL LIGHTING FIXTURES			
	Materials, components, parts, containers, and supplies, total.....		(X)	<sup>2</sup> 359.8
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	.2	.1
331012	Sheet and strip.....	..do.....	227.3	43.8
331017	Wire and wire products.....	..do.....	.8	.4
331015	Structural shapes.....	..do.....		
331013	Plates.....	..do.....	4.9	1.5
331019	All other carbon steel mill shapes and forms.....	..do.....		
331020	Alloy steel, except stainless.....	..do.....	(NA)	2.6
	Stainless steel:			
331033	Sheet and strip.....	..do.....	(NA)	.9
331050	All other stainless steel mill shapes and forms.....	..do.....		
335790	Insulated wire and cable.....	Million lb. (copper content).....	(NA)	3.2
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	Million lb.....	(NA)	.3
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	.1	.1
335143	Plate, sheet and strip, including military cups and discs....	..do.....	(NA)	.2
335152	Pipe and tubes.....	..do.....	.1	.1
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	8.1	4.3
335405	Extruded shapes including extruded rod, bar, pipe, tube, etc.	..do.....	13.2	6.2
335008	All other aluminum mill shapes and forms (wired, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	.5	.7
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.....	(D)	(D)
	Castings (rough and semifinished): <sup>3</sup>			
332011	Iron (gray and malleable).....	..do.....	(NA)	.6
332045	Steel.....	..do.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	7.5	4.1
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)
320313	Glass and glass products (including lamp bulb blanks).....		(X)	6.5
232130	Thermoplastic resins, including modified resins (resin content of vinyls, dry basis for cellulose, polyethylenes, styrenes, etc., including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes).....	Mil. lb. (dry basis)...	(NA)	6.6
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.), including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes.....	..do.....	(D)	(D)
970099	All other materials and components, parts, containers, and sup- plies consumed.....		(X)	235.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	39.2
	INDUSTRY 3647.--VEHICULAR LIGHTING EQUIPMENT			
	Materials, components, parts, containers, and supplies, total.....		(X)	196.9
	Mill shapes and forms, except castings:			
	Carbon steel			
331011	Bars and bar shapes.....	1,000 s. tons.....	76.7	17.4
331012	Sheet and strip.....	..do.....		
331017	Wire and wire products.....	..do.....		
331015	Structural shapes.....	..do.....		
331013	Plates.....	..do.....		
331019	All other carbon steel mill shapes and forms.....	..do.....		
331020	Alloy steel, except stainless.....	..do.....		
	Stainless steel:			
331033	Sheet and strip.....	..do.....	2.1	2.3
331050	All other stainless steel mill shapes and forms.....	..do.....	-	-
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	1.6	1.6
335791	Aluminum content.....	Million lb.....	(NA)	
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	..do.....	(NA)	.1
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	1.5	1.0
335143	Plate, sheet and strip, including military cups and discs....	..do.....	.7	.6
335152	Pipe and tubes.....	..do.....	.1	.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
	INDUSTRY 3647.--VEHICULAR LIGHTING EQUIPMENT--Continued			
	Materials, components, parts, containers, and supplies--Con.			
	Mill shapes and forms, except castings--Continued			
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate and foil.....	Million lb.....	2.9	1.3
335405	Extruded shapes including extruded rod, bar, pipe, tube, etc.	...do.....	.9	.4
335008	All other aluminum mill shapes and forms (wired, rolled and bar, powder, welded tubing, etc.).....	...do.....	(NA)	.1
	Castings (rough and semifinished): <sup>3</sup>			
332011	Iron (gray and malleable).....	...do.....	.4	.4
332045	Steel.....	...do.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	.9	.7
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)
320313	Glass and glass products (including lamp bulb blanks).....		(X)	11.6
282130	Thermoplastic resins (modified resins including resin content of vinyls and dry basis for cellulose; polyethylenes, polypropylenes, styrenes, etc.; granules, pellets, powder, liquid, etc.; but excluding sheets, rods, tubes, and other shapes).....	Mil. lb. (dry basis)..	37.5	11.5
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.), including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes.....	...do.....	1.5	.5
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	137.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	10.1
	INDUSTRY 3648.--LIGHTING EQUIPMENT, N.E.C.			
	Materials, components, parts, containers, and supplies, total.....		(X)	<sup>2</sup> 197.9
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	2.4	.6
331012	Sheet and strip.....	...do.....	21.2	5.9
331017	Wire and wire products.....	...do.....	1.4	.6
331015	Structural shapes.....	...do.....	5.9	2.1
331013	Plates.....	...do.....	5.5	1.5
331019	All other carbon steel mill shapes and forms.....	...do.....	4.9	1.9
331020	Alloy steel, except stainless.....	...do.....	9.9	4.1
	Stainless steel:			
331033	Sheet and strip.....	...do.....	.8	.9
331050	All other stainless steel mill shapes and forms.....	...do.....	.1	.1
335790	Insulated wire and cable.....	Mil. lb. (copper content).	4.6	4.2
335791	Aluminum content.....	Million lb.....	.3	
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction).....	...do.....	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	.1	.1
335143	Plate, sheet and strip, including military cups and discs....	...do.....	.8	.9
335152	Pipe and tubes.....	...do.....	.1	.1
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	...do.....	13.4	6.7
335405	Extruded shapes including extruded rod, bar, pipe, tube, etc.	...do.....	27.2	13.8
335008	All other aluminum mill shapes and forms (wired, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	1.3	.8
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.....	(D)	(D)
	Castings (rough and semifinished) <sup>3</sup> :			
332011	Iron (gray and malleable).....	...do.....	.4	.4
332045	Steel.....	...do.....	1.3	1.1
336100	Aluminum and aluminum-base alloy.....	Million lb.....	18.6	15.7
336200	Copper and copper-base alloy.....	...do.....	.6	.6
320313	Glass and glass products (including lamp bulb blanks).....		(X)	7.0
282130	Thermoplastic resins, including modified resins (resin content of vinyls, dry basis for cellulose; polyethylenes, styrenes, etc., including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes).....	Mil. lb. (dry basis)..	4.0	1.4
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.), including granules, pellets, powder, liquid, etc., but excluding sheets, rods, tubes, and other shapes.....	...do.....	1.8	.6
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	107.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	15.5

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than \$50 thousand.

<sup>1</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.

<sup>2</sup>Includes cost for materials indicated by the symbol (D).

<sup>3</sup>Excludes quantities produced and consumed in the same establishment.



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3641.--ELECTRIC LAMPS						
	Purchased fuels and electric energy.....		(X)	9.1	(X)	(NA)
	Purchased fuels, total.....		(X)	3.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	.8	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	93.6	.5	(NA)	(NA)
291141	Distillate.....	..do.....	55.8	.3	(NA)	(NA)
291151	Residual.....	..do.....	37.9	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	4.1	2.5	(NA)	(NA)
960011	Other fuels.....		(X)	.4	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	462.6	5.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.1	-	(NA)	(NA)
INDUSTRY 3643.--CURRENT-CARRYING WIRING DEVICES						
	Purchased fuels and electric energy.....		(X)	8.3	(X)	(NA)
	Purchased fuels, total.....		(X)	2.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	.5	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	135.0	.6	(NA)	(NA)
291141	Distillate.....	..do.....	108.9	.5	(NA)	(NA)
291151	Residual.....	..do.....	26.1	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.9	.6	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.0	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	385.3	5.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.4	-	(NA)	(NA)
INDUSTRY 3644.--NONCURRENT-CARRYING WIRING DEVICES						
	Purchased fuels and electric energy.....		(X)	8.5	(X)	(NA)
	Purchased fuels, total.....		(X)	3.8	(X)	(NA)
121005	Coal.....	1,000 s. tons....	21.6	.3	(NA)	(NA)
331212	Coke.....	..do.....	(S)	.5	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	144.0	.7	(NA)	(NA)
291141	Distillate.....	..do.....	112.4	.5	(NA)	(NA)
291151	Residual.....	..do.....	31.6	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.1	1.3	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	343.8	4.7	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.9	-	(NA)	(NA)
INDUSTRY 3645.--RESIDENTIAL LIGHTING FIXTURES; INDUSTRY 3646.--COMMERCIAL LIGHTING FIXTURES; INDUSTRY 3647.--VEHICULAR LIGHTING EQUIPMENT; and INDUSTRY 3648.--LIGHTING EQUIPMENT, N.E.C.						
	Purchased fuels and electric energy.....		(X)	16.3	(X)	12.4
	Purchased fuels, total.....		(X)	6.5	(X)	5.2
121005	Coal.....	1,000 s. tons....	63.5	.7	58.9	.5
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	126.7	.5	177.0	.6
291141	Distillate.....	..do.....	88.5	.4	84.0	.3
291151	Residual.....	..do.....	38.2	.2	93.0	.3
131300	Natural gas.....	Billion ft <sup>3</sup> .....	5.1	3.0	4.1	2.5
960011	Other fuels.....		(X)	.1	(X)	.2
975000	Fuels, n.s.k.....		(X)	2.2	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	815.1	9.8	590.5	7.2
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	-	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.2	-	3.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

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# Communication Equipment, Including Radio and TV, and Electronic Components and Accessories

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# EXPLANATORY TEXT

## COMMUNICATION EQUIPMENT, INCLUDING RADIO AND TV, AND ELECTRONIC COMPONENTS AND ACCESSORIES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3651—Radio and Television Receiving Sets, Except Communication Types\*
- 3652—Phonograph Records and Prerecorded Magnetic Tape
- 3661—Telephone and Telegraph Apparatus
- 3662—Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus\*
- 3671—Radio and Television Receiving-Type Electron Tubes, Except Cathode Ray\*
- 3672—Cathode Ray Television Picture Tubes
- 3673—Transmitting, Industrial, and Special-Purpose Electron Tubes\*
- 3674—Semiconductors and Related Devices
- 3675—Electronic Capacitors
- 3676—Resistors, for Electronic Applications\*
- 3677—Electronic Coils, Transformers, and Other Inductors\*
- 3678—Connectors, for Electronic Applications\*
- 3679—Electronic Components, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3651.—RADIO AND TV RECEIVING SETS (Short Title)

This industry comprises establishments primarily engaged in manufacturing electronic equipment for home entertainment.

\*Note that the "short title" for this industry is used throughout the report.

This industry also includes establishments primarily engaged in manufacturing public address systems and music distribution apparatus, except records. Establishments primarily engaged in manufacturing records are classified in industry 3652; radio and television receiving-type tubes in industry 3671; and television receiving-type cathode-ray tubes are classified in industry 3672. For a detailed list of products of industry 3651, refer to table 6A, product codes 36511 01 to 36515 90.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Radio and TV Receiving Sets Industry in 1972 totaled \$4,440 million. This included shipments of radio and TV receiving sets (primary products) valued at \$3,560 million, shipments of other products (secondary products) valued at \$168 million, and miscellaneous receipts (mainly resales) of \$711 million.

Shipments of radio and TV receiving sets (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of radio and TV receiving sets (primary products) from establishments classified in industry 3651 in 1972 represented 99 percent (coverage ratio) of these products valued at \$3,610 million shipped by all industries. In 1967, the coverage ratio was also 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3651, these establishments accounted for 2 percent of value of shipments.

### INDUSTRY 3652.—PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPE

This industry comprises establishments primarily engaged in manufacturing phonograph records and prerecorded magnetic tape. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records and prerecorded magnetic tape, are classified in industry 3651. Establishments primarily engaged in manufacturing blank



magnetic recording tape are classified in industry 3679. For a detailed list of products of industry 3652, refer to table 6A, product codes 36520 22 to 36520 91.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. Under the old SIC, however, the title of this industry was "Phonograph Records."

Value of shipments and other receipts of the Phonograph Records and Prerecorded Magnetic Tape Industry in 1972 totaled \$568 million. This included shipments of phonograph records and tapes (primary products) valued at \$533 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts (mainly resales) of \$24 million.

Shipments of phonograph records and prerecorded magnetic tape (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 99 percent.

Shipments of phonograph records and prerecorded magnetic tape (primary products) from establishments classified in industry 3652 in 1972 represented 99 percent (coverage ratio) of these products valued at \$537 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3652, these establishments accounted for 12 percent of value of shipments.

#### INDUSTRY 3661.—TELEPHONE AND TELEGRAPH APPARATUS

This industry comprises establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use. For a detailed list of products of industry 3661, refer to table 6A, product codes 36611 11 to 36612 81.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of

Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Data on cost of materials and value of shipments of the Telephone and Telegraph Apparatus Industry include extensive duplication resulting from the transfer of products such as telephone and telegraph components to establishments producing complete telephone and telegraph equipment. The value of such shipments are duplicated in the total value of shipments. A corresponding duplication enters into the total cost of materials. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

Value of shipments and other receipts of the Telephone and Telegraph Apparatus Industry in 1972 totaled \$4,498 million. This included shipments of telephone and telegraph apparatus (primary products) valued at \$3,922 million, shipments of other products (secondary products) valued at \$334 million, and miscellaneous receipts of \$241 million.

Shipments of telephone and telegraph apparatus (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent.

Shipments of telephone and telegraph apparatus (primary products) from establishments classified in industry 3661 in 1972 represented 99 percent (coverage ratio) of these products valued at \$3,974 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3661, these establishments accounted for less than 1 percent of value of shipments.

#### INDUSTRY 3662.—RADIO AND TV COMMUNICATION EQUIPMENT (Short Title)

This industry comprises establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operating apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; (4) high-energy particle accelerator systems and equipment designed and sold as a complete package for radiation therapy, irradiation, radiographic inspection, and research (linear accelerators, betatrons,

dynamotrons, Vandergraff generators, resonant transformers, insulating core transformers, etc.); (5) high-energy particle electronic equipment and accessories sold separately for the construction of linear accelerators, cyclotrons, synchrotrons, and other high-energy research installations (transmitters/modulators, accelerating waveguide structures, pulsed electron guns, vacuum systems, cooling systems, etc.); and (6) other electric and electronic communication and signaling products, not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673. For a detailed list of products of industry 3662, refer to table 6A, product codes 36623 10 to 36629 79.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Radio and TV Communication Equipment Industry in 1972 totaled \$9,134 million. This included shipments of radio and TV communication equipment (primary products) valued at \$7,610 million, shipments of other products (secondary products) valued at \$762 million, and miscellaneous receipts of \$762 million.

Shipments of radio and TV communication equipment (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 89 percent.

Shipments of radio and TV communication equipment (primary products) from establishments classified in industry 3662 in 1972 represented 91 percent (coverage ratio) of these products valued at \$8,377 million shipped by all industries. In 1967, the coverage ratio was 90 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3662, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE** (Short Title)

This industry comprises establishments primarily engaged in manufacturing radio and television receiving-type electron

tubes, except cathode-ray tubes. Establishments primarily engaged in manufacturing television receiving-type cathode-ray tubes are classified in industry 3672; transmitting tubes in industry 3673; X-ray tubes in industry 3693 (X-ray Apparatus and Tubes); and electronic equipment for home entertainment, except tubes, in industry 3651. For a detailed list of products of industry 3671, refer to table 6A, product codes 36710 11 to 36710 15.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electron Tubes, Receiving Type, Industry in 1972 totaled \$230 million. This included shipments of electron tubes, receiving type, (primary products) valued at \$179 million, shipments of other products (secondary products) valued at \$37 million, and miscellaneous receipts of \$15 million.

Shipments of electron tubes, receiving type, (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of electron tubes, receiving type, (primary products) from establishments classified in industry 3671 in 1972 represented 94 percent (coverage ratio) of these products valued at \$190 million shipped by all industries. In 1967, the coverage ratio was also 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3671, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3672.—CATHODE-RAY TELEVISION** **PICTURE TUBES**

This industry comprises establishments primarily engaged in manufacturing receiving-type cathode-ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving-type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673. For a detailed list of products of industry 3672, refer to table 6A, product codes 36720 13 and 36720 15.



The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Cathode-Ray Television Picture Tubes Industry in 1972 totaled \$696 million. This included shipments of picture tubes (primary products) valued at \$618 million, shipments of other products (secondary products) valued at \$58 million, and miscellaneous receipts (mainly resales) of \$20 million.

Shipments of cathode-ray television picture tubes (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of cathode-ray television picture tubes (primary products) from establishments classified in industry 3672 in 1972 represented 98 percent (coverage ratio) of these products valued at \$634 million shipped by all industries. In 1967, the coverage ratio was also 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3672, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING (Short Title)**

This industry comprises establishments primarily engaged in manufacturing transmitting, industrial, and special-purpose electron tubes. Establishments primarily engaged in manufacturing radio and television receiving tubes are classified in industry 3671; television receiving-type cathode-ray tubes in industry 3672; and X-ray tubes in industry 3693 (X-ray Apparatus and Tubes). For a detailed list of products of industry 3673, refer to table 6A, product codes 36730 11 to 36730 96.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972

edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electron Tubes, Transmitting, Industry in 1972 totaled \$479 million. This included shipments of electron tubes, transmitting, (primary products) valued at \$307 million, shipments of other products (secondary products) valued at \$139 million, and miscellaneous receipts of \$33 million.

Shipments of electron tubes, transmitting, (primary products) in 1972 represented 69 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 79 percent.

Shipments of electron tubes, transmitting, (primary products) from establishments classified in industry 3673 in 1972 represented 84 percent (coverage ratio) of these products valued at \$366 million shipped by all industries. In 1967, the coverage ratio was 72 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3673, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3674.—SEMICONDUCTORS AND RELATED DEVICES**

This industry comprises establishments primarily engaged in manufacturing semiconductors and related solid-state devices, such as semiconductor diodes and stacks, including rectifiers, integrated microcircuits (semiconductor networks), transistors, solar cells, and light sensing and emitting semiconductor (solid-state) devices. For a detailed list of products of industry 3674, refer to table 6A, product codes 36741 13 to 36749 96.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Semiconductors and Related Devices Industry in 1972 totaled \$2,687 million. This included shipments of semiconductors and related devices (primary products) valued at \$2,163 million, shipments of other products (secondary products) valued at \$261



million, and miscellaneous receipts (mainly resales) of \$262 million.

Shipments of semiconductors and related devices (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of semiconductors and related devices (primary products) from establishments classified in industry 3674 in 1972 represented 92 percent (coverage ratio) of these products valued at \$2,361 million shipped by all industries. In 1967, the coverage ratio was also 92 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3674, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3675.—ELECTRONIC CAPACITORS**

This industry comprises establishments primarily engaged in manufacturing electronic capacitors. For a detailed list of products of industry 3675, refer to table 6A, product codes 36750 12 to 36750 62.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

This industry is published separately for the first time in the census of manufactures for 1972. In prior years, it was included in industry 3679, product class 36792.

Value of shipments and other receipts of the Electronic Capacitors Industry in 1972 totaled \$446 million. This included shipments of electronic capacitors (primary products) valued at \$396 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts (mainly resales) of \$7 million.

Shipments of electronic capacitors (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of electronic capacitors (primary products) from establishments classified in industry 3675 in 1972 represented 87 percent (coverage ratio) of these products valued at \$454 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at

the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3675, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3676.—ELECTRONIC RESISTORS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing resistors for electronic end products. Establishments primarily engaged in manufacturing resistors for telephone and telegraph apparatus are classified in industry 3661. For a detailed list of products of industry 3676, refer to table 6A, product codes 36760 11 to 36760 55.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

This industry is published separately for the first time in the census of manufactures for 1972. In prior years, it was part of industry 3679, product class 36793.

Value of shipments and other receipts of the Electronic Resistors Industry in 1972 totaled \$372 million. This included shipments of electronic resistors (primary products) valued at \$324 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts of \$13 million.

Shipments of electronic resistors (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of electronic resistors (primary products) from establishments classified in industry 3676 in 1972 represented 74 percent (coverage ratio) of these products valued at \$438 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3676, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3677.—ELECTRONIC COILS AND TRANSFORMERS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing electronic coils, transformers, and inductors.

Establishments primarily engaged in manufacturing transformers and inductors for telephone and telegraph apparatus are classified in industry 3661; electric lamps in industry 3641 (Electric Lamps); and semiconductor (solid state) and related devices in industry 3674. For a detailed list of products of industry 3677, refer to table 6A, product codes 36770 32 to 36770 92.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Electronic Coils and Transformers Industry is included for the first time in the census of manufactures for 1972. In prior years, it was part of industry 3679, product class 36794.

Value of shipments and other receipts of the Electronic Coils and Transformers Industry in 1972 totaled \$354 million. This included shipments of electronic coils and transformers (primary products) valued at \$304 million, shipments of other products (secondary products) valued at \$47 million, and miscellaneous receipts (mainly resales) of \$3 million.

Shipments of electronic coils and transformers (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of electronic coils and transformers (primary products) from establishments classified in industry 3677 in 1972 represented 79 percent (coverage ratio) of these products valued at \$385 million shipped by all industries. Other industries shipping electronic coils and transformers consisted mainly of industry 3679, Electronic Components, N.E.C., (\$35 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3677, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3678.—ELECTRONIC CONNECTORS** (Short Title)

This industry comprises establishments primarily engaged in manufacturing electronic connectors. Establishments primarily engaged in manufacturing electronic capacitors are classified in industry 3675; and electronic coils, transformers, and other inductors, in industry 3677. For a detailed list of products of industry 3678, refer to table 6A, product codes 36780 81 to 36780 86.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Electronic Connectors Industry is included for the first time in the census of manufactures for 1972. In prior years, it was part of industry 3679, product class 36795.

Value of shipments and other receipts of the Electronic Connectors Industry in 1972 totaled \$492 million. This included shipments of electronic connectors (primary products) valued at \$422 million, shipments of other products (secondary products) valued at \$61 million, and miscellaneous receipts of \$8 million.

Shipments of electronic connectors (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of electronic connectors (primary products) from establishments classified in industry 3678 in 1972 represented 81 percent (coverage ratio) of these products valued at \$524 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3678, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3679.—ELECTRONIC COMPONENTS,** **N.E.C.**

This industry comprises establishments primarily engaged in manufacturing electronic components, not elsewhere classified, such as receiving antennas, printed circuits, switches, and waveguides. For a detailed list of products of industry 3679, refer to table 6A, product code 36790 20 and 36790 47.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics based on the classification system followed in the 1967 census were split, as a result of the 1972 edition of the SIC manual, into five separate industries: Industry 3675, Electronic Capacitors; industry 3676, Electronic Resistors; industry 3677, Electronic Coils and Transformers; industry 3678, Electronic Connectors; and industry 3679, Electronic Components, N.E.C.



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## EXPLANATORY TEXT—Continued

Value of shipments and other receipts of the Electronic Components, N.E.C., Industry in 1972 totaled \$3,042 million. This included shipments of electronic components, n.e.c., (primary products) valued at \$2,327 million, shipments of other products (secondary products) valued at \$599 million, and miscellaneous receipts (mainly resales) of \$116 million.

Shipments of electronic components, n.e.c., (primary products) in 1972 represented 80 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of electronic components, n.e.c., (primary products) from establishments classified in industry 3679 in 1972

represented 72 percent (coverage ratio) of these products valued at \$3,210 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3679, these establishments accounted for 8 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3651.--RADIO AND TV RECEIVING SETS															
1972 Census.....	372	164	86.5	651.4	69.8	132.3	453.6	1,807.9	2,715.4	4,440.1	58.6	(NA)	664.8	95	99
1971 ASM .....	(NA)	(NA)	89.9	641.8	70.1	133.8	436.9	1,537.5	2,475.2	4,048.6	36.4	587.4	635.2	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	89.7	607.0	68.4	130.7	392.4	1,390.6	2,196.9	3,629.8	51.0	592.0	671.4	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	105.5	654.5	84.8	163.1	443.5	1,584.9	2,545.5	4,053.6	59.6	576.6	728.0	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	112.5	667.3	91.9	175.4	465.1	1,558.1	2,657.7	4,254.6	36.2	539.6	662.8	(NA)	(NA)
1967 Census.....	340	187	116.7	643.6	96.2	183.4	462.6	1,404.5	2,486.0	3,846.3	86.1	528.2	726.0	94	99
1966 ASM .....	(NA)	(NA)	130.2	679.4	109.8	214.0	509.8	1,685.1	2,602.1	4,117.1	121.1	(NA)	756.3	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	100.1	535.1	83.1	166.2	393.2	1,249.4	1,983.1	3,207.5	58.8	(NA)	459.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	86.5	440.6	70.9	139.8	312.7	983.4	1,529.3	2,509.7	33.3	297.0	397.8	(NA)	(NA)
1963 Census.....	348	178	81.3	411.9	66.5	128.5	289.3	912.0	1,389.4	2,254.9	30.5	276.9	381.4	91	96
1962 ASM .....	(NA)	(NA)	83.0	408.3	66.1	127.2	273.3	869.0	1,306.6	2,128.9	27.1	251.7	328.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	76.8	370.0	59.6	112.1	239.3	728.8	1,105.9	1,849.2	*28.7	(NA)	283.2	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	71.7	340.6	56.3	108.5	222.3	694.3	1,036.0	1,719.3	19.6	(NA)	277.3	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	74.9	339.4	60.2	116.2	231.7	727.1	1,079.1	1,781.1	16.6	(NA)	264.1	(NA)	(NA)
1958 Census .....	234	144	66.5	292.7	52.0	100.5	196.6	594.0	936.3	1,548.0	13.3	(NA)	225.9	91	90
INDUSTRY 3652.--PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPE															
1972 Census.....	<sup>2</sup> 567	119	20.3	146.5	15.9	30.8	100.0	375.6	191.5	567.7	16.9	(NA)	67.5	98	99
1971 ASM .....	(NA)	(NA)	18.7	128.2	14.6	29.1	88.3	314.6	189.1	495.2	12.3	*150.9	74.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	18.7	115.6	14.4	28.7	79.4	281.8	165.9	*438.6	21.2	*140.0	66.5	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	17.5	104.5	13.9	28.5	72.6	263.3	149.7	406.8	16.9	113.2	55.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	14.5	85.1	11.4	23.7	59.8	208.3	106.2	317.6	5.5	92.2	37.6	(NA)	(NA)
1967 Census.....	<sup>2</sup> 321	73	13.6	76.6	11.0	22.2	54.0	182.3	95.2	276.4	7.1	93.8	38.7	99	96
1966 ASM .....	(NA)	(NA)	11.0	57.8	9.1	18.0	43.0	156.2	68.4	218.4	7.6	(NA)	32.0	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	10.1	52.2	8.3	16.8	37.5	140.7	64.1	201.4	7.3	(NA)	24.6	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	9.9	47.9	8.0	15.9	35.0	152.4	56.8	207.2	8.1	56.7	20.2	(NA)	(NA)
1963 Census.....	167	60	9.6	47.0	7.6	15.0	33.0	125.4	54.1	180.2	8.7	49.6	19.9	99	97
1962 ASM .....	(NA)	(NA)	9.2	45.3	7.1	14.4	31.5	126.3	62.5	189.3	3.1	47.0	18.7	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	8.4	39.6	6.6	13.1	27.8	109.5	54.5	165.5	3.5	(NA)	17.2	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	8.2	37.4	6.5	13.3	26.3	99.6	54.8	154.9	5.6	(NA)	21.3	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	7.6	35.2	6.0	12.5	25.2	91.9	58.4	150.6	4.3	(NA)	21.3	(NA)	(NA)
1958 Census .....	94	53	7.4	33.4	5.9	12.2	23.7	93.1	58.7	148.7	4.0	(NA)	20.3	97	98
INDUSTRY 3661.--TELEPHONE AND TELEGRAPH APPARATUS <sup>3</sup>															
1972 Census.....	203	110	134.5	1,323.0	94.7	176.4	821.9	2,650.0	1,970.2	4,524.7	169.2	(NA)	856.1	91	99
1971 ASM .....	(NA)	(NA)	139.8	1,292.5	98.1	185.7	785.1	2,501.5	1,754.5	4,235.8	216.2	1,585.4	782.5	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	142.0	1,231.3	101.6	198.8	781.9	2,378.3	1,759.9	4,059.7	118.0	1,367.6	744.7	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	126.6	1,061.2	90.8	178.9	682.0	2,059.2	1,399.8	3,409.6	159.6	1,257.7	662.9	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	117.0	891.6	83.6	158.7	566.1	1,702.0	1,168.6	2,843.5	105.4	1,114.9	549.4	(NA)	(NA)
1967 Census.....	106	63	115.4	827.9	83.2	158.8	534.4	1,536.7	1,082.7	2,591.2	110.9	1,056.1	536.4	88	96
1966 ASM .....	(NA)	(NA)	112.7	780.4	82.1	158.4	507.3	1,431.8	1,068.9	2,467.0	109.7	(NA)	485.8	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	102.2	705.4	75.3	150.1	469.3	1,361.5	966.4	2,272.6	89.9	(NA)	418.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	94.0	630.0	67.6	132.3	409.8	1,128.6	826.2	1,954.3	53.5	880.3	361.7	(NA)	(NA)
1963 Census.....	90	56	89.5	554.4	64.0	122.7	358.7	1,013.8	704.2	1,736.4	55.1	854.9	331.4	95	95
1962 ASM .....	(NA)	(NA)	98.7	620.7	68.2	136.0	378.0	1,024.7	794.7	1,883.6	77.4	826.6	356.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	92.2	562.2	62.4	124.2	339.1	1,004.1	690.6	1,680.4	65.3	(NA)	393.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	87.5	529.7	61.1	124.0	329.5	845.9	629.4	1,484.5	78.2	(NA)	347.9	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	80.4	464.1	56.1	111.8	286.9	798.0	527.1	1,295.3	*72.0	(NA)	328.9	(NA)	(NA)
1958 Census .....	91	51	80.1	430.7	54.3	105.5	268.9	715.5	469.7	1,208.0	102.8	(NA)	288.9	96	99
INDUSTRY 3662.--RADIO AND TV COMMUNICATION EQUIPMENT															
1972 Census.....	1,772	920	319.1	3,588.5	161.8	320.6	1,446.7	5,799.3	3,336.9	9,133.8	212.2	(NA)	2,077.7	91	91
1971 ASM .....	(NA)	(NA)	325.1	3,458.0	153.6	300.2	1,298.7	5,437.8	3,079.3	8,749.5	191.4	2,310.3	2,058.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	390.0	3,786.9	185.7	366.5	1,452.4	5,905.4	3,257.7	9,299.3	254.7	2,352.9	2,275.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	412.8	3,956.9	203.9	409.6	1,549.5	6,169.7	3,488.1	9,653.1	267.4	2,141.7	2,459.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	424.3	3,828.7	219.0	443.6	1,584.2	6,122.1	3,712.6	9,560.0	302.2	1,999.1	2,427.8	(NA)	(NA)
1967 Census.....	1,296	782	409.9	3,568.8	221.3	447.6	1,515.6	5,455.8	3,433.4	8,555.8	246.0	1,767.0	2,114.9	89	90
1966 ASM .....	(NA)	(NA)	373.4	3,086.8	205.1	415.5	1,335.6	4,855.3	3,032.0	7,562.6	187.9	(NA)	1,745.8	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	352.9	2,813.9	185.7	378.7	1,179.3	4,349.1	2,568.3	6,861.6	147.6	(NA)	1,430.2	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	353.3	2,638.7	181.7	367.6	1,170.1	4,258.1	2,318.0	6,510.2	124.5	1,319.6	1,301.4	(NA)	(NA)
1963 Census.....	1,132	635	387.4	2,840.2	205.7	419.1	1,230.7	4,327.7	2,822.9	7,145.6	138.7	1,240.8	1,331.9	88	91
1962 ASM .....	(NA)	(NA)	348.4	2,575.8	178.1	380.7	1,207.6	3,914.7	2,900.2	6,663.7	114.3	1,127.5	993.4	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	307.7	2,162.5	150.0	326.3	915.9	3,160.6	2,578.5	5,682.5	112.9	(NA)	806.2	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	239.7	1,602.6	127.1	277.8	738.6	2,399.5	2,143.7	4,458.3	97.9	(NA)	659.1	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	187.1	1,186.9	107.9	220.7	568.9	1,831.1	1,788.8	3,540.8	79.5	(NA)	550.5	(NA)	(NA)
1958 Census .....	519	270	154.3	924.1	88.5	178.3	433.6	1,558.3	1,274.7	2,852.6	56.1	(NA)	471.3	86	83

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3671.--ELECTRON TUBES, RECEIVING TYPE															
1972 Census	25	13	11.4	87.7	9.5	18.2	63.7	173.8	56.8	230.4	1.8	(NA)	23.9	83	94
1971 ASM	(NA)	(NA)	12.2	87.9	10.5	20.0	65.6	182.9	59.5	244.5	1.0	108.0	23.5	(NA)	(NA)
1970 ASM	(NA)	(NA)	14.3	95.9	12.2	22.6	69.3	186.9	64.5	252.8	2.9	116.8	26.8	(NA)	(NA)
1969 ASM	(NA)	(NA)	17.1	111.2	14.7	27.2	79.7	216.5	73.3	288.5	3.6	122.1	30.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	18.7	114.8	16.0	30.0	82.5	222.0	80.2	301.7	3.8	126.1	25.1	(NA)	(NA)
1967 Census	39	19	21.0	118.3	18.0	32.4	85.9	224.7	72.8	300.6	7.0	128.6	27.9	85	94
1966 ASM	(NA)	(NA)	24.3	140.8	20.7	41.2	103.4	243.7	86.3	336.1	8.3	(NA)	28.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	22.3	123.7	18.3	35.3	86.2	214.3	74.5	294.2	6.9	(NA)	35.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	21.9	118.6	17.9	33.5	79.1	202.3	68.0	279.9	4.2	136.9	40.7	(NA)	(NA)
1963 Census	42	22	25.8	136.8	20.4	37.7	88.5	250.7	76.1	321.1	5.6	135.9	53.3	89	95
1962 ASM	(NA)	(NA)	26.6	134.6	21.4	40.4	92.6	239.1	72.5	310.2	5.3	135.9	39.9	(NA)	(NA)
1961 ASM	(NA)	(NA)	27.2	131.7	21.7	39.6	88.0	230.9	79.9	313.9	8.3	(NA)	42.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	36.2	162.1	29.2	51.3	107.3	300.0	103.5	397.0	14.7	(NA)	55.1	(NA)	(NA)
1959 ASM	(NA)	(NA)	37.4	163.2	30.4	56.1	113.3	323.8	106.0	422.1	12.2	(NA)	54.3	(NA)	(NA)
1958 Census	85	41	37.0	149.5	30.9	57.3	110.7	285.8	92.3	382.5	11.5	(NA)	44.6	89	96
INDUSTRY 3672.--CATHODE-RAY TELEVISION PICTURE TUBES															
1972 Census	75	21	15.8	146.9	12.2	24.3	97.3	345.5	359.1	696.5	26.2	(NA)	66.3	91	98
1971 ASM	(NA)	(NA)	17.2	148.3	12.3	24.4	86.4	298.8	285.2	587.0	18.9	318.6	58.3	(NA)	(NA)
1970 ASM	(NA)	(NA)	19.2	147.4	13.7	26.3	86.4	261.5	259.8	519.1	13.9	319.3	67.4	(NA)	(NA)
1969 ASM	(NA)	(NA)	23.4	164.6	16.7	33.1	100.8	361.9	327.2	694.9	19.3	370.9	77.2	(NA)	(NA)
1968 ASM	(NA)	(NA)	27.2	175.3	19.2	37.6	107.1	436.5	358.0	786.5	18.0	345.8	73.6	(NA)	(NA)
1967 Census	99	23	27.6	172.5	19.9	40.0	107.4	462.5	357.6	832.3	46.0	335.3	85.3	92	98
1966 ASM	(NA)	(NA)	24.7	156.8	19.6	42.7	111.1	472.5	366.1	812.4	72.5	(NA)	88.9	(NA)	(NA)
1965 ASM	(NA)	(NA)	14.3	96.7	10.8	23.8	61.7	273.6	187.7	458.7	42.2	(NA)	35.6	(NA)	(NA)
1964 ASM	(NA)	(AA)	11.3	73.7	8.1	18.0	43.9	162.0	148.1	308.9	18.8	118.5	24.7	(NA)	(NA)
1963 Census	151	28	10.9	66.9	8.0	16.6	40.5	128.4	142.1	269.1	16.1	99.9	23.2	85-90	90
1962 ASM	(NA)	(NA)	6.8	40.2	5.4	11.2	27.5	63.4	104.3	167.9	3.7	86.5	13.8	(NA)	(NA)
1961 ASM	(NA)	(NA)	7.5	41.1	6.1	12.5	28.7	84.1	103.1	183.5	4.7	(NA)	20.0	(NA)	(NA)
1960 ASM	(NA)	(NA)	8.0	43.0	6.6	13.3	31.0	77.1	104.0	179.9	3.1	(NA)	18.9	(NA)	(NA)
1959 ASM	(NA)	(NA)	7.6	40.3	6.1	12.8	28.8	82.5	100.2	183.2	(S)	(NA)	21.6	(NA)	(NA)
1958 Census	75	30	8.6	38.1	7.0	14.2	27.6	67.5	92.0	159.3	1.8	(NA)	17.5	96	84
INDUSTRY 3673.--ELECTRON TUBES, TRANSMITTING															
1972 Census	53	38	20.5	233.8	12.3	25.3	115.8	342.8	138.0	479.3	13.5	(NA)	102.8	68	84
1971 ASM	(NA)	(NA)	13.9	149.8	9.1	18.0	83.0	248.7	99.2	350.4	7.9	181.1	80.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	16.6	164.7	10.4	21.5	89.7	283.6	105.2	386.5	9.9	169.3	87.9	(NA)	(NA)
1969 ASM	(NA)	(NA)	17.9	165.0	11.9	24.9	95.8	276.0	116.4	395.0	13.6	165.6	81.0	(NA)	(NA)
1968 ASM	(NA)	(NA)	18.7	160.7	12.8	26.6	94.1	267.9	121.4	390.9	13.7	157.7	81.4	(NA)	(NA)
1967 Census	56	38	18.2	145.8	12.6	26.1	84.0	239.6	128.5	369.4	13.1	152.0	84.7	79	72
1966 ASM	(NA)	(NA)	19.5	150.9	13.3	26.5	86.3	251.9	127.6	369.9	18.4	(NA)	88.9	(NA)	(NA)
1965 ASM	(NA)	(NA)	17.4	135.4	11.4	23.3	73.3	210.5	102.7	306.3	10.6	(NA)	74.4	(NA)	(NA)
1964 ASM	(NA)	(NA)	16.7	120.4	10.5	21.6	67.4	192.4	87.2	280.0	9.8	148.9	67.5	(NA)	(NA)
1963 Census	57	45	18.7	129.3	11.6	24.0	72.4	204.6	96.3	299.5	13.3	137.0	74.2	80	75
1962 ASM	(NA)	(NA)	25.0	157.4	15.2	31.1	84.5	276.8	131.6	404.9	18.6	128.2	87.0	(NA)	(NA)
1961 ASM	(NA)	(NA)	23.3	140.8	14.2	29.1	75.5	225.2	112.9	335.5	16.7	(NA)	84.4	(NA)	(NA)
1960 ASM	(NA)	(NA)	22.3	125.5	13.7	27.7	66.5	203.5	100.4	292.8	20.2	(NA)	81.2	(NA)	(NA)
1959 ASM	(NA)	(NA)	22.7	123.2	14.5	29.7	69.3	201.3	98.5	291.9	11.8	(NA)	70.3	(NA)	(NA)
1958 Census	48	44	20.1	102.1	14.5	29.5	65.1	165.8	90.7	258.5	9.0	(NA)	59.9	83	81
INDUSTRY 3674.--SEMICONDUCTORS AND RELATED DEVICES															
1972 Census	325	196	97.0	946.8	58.1	115.6	417.0	1,723.8	923.2	2,686.9	170.3	(NA)	497.1	89	92
1971 ASM	(NA)	(NA)	74.7	658.1	45.5	90.0	299.9	1,076.3	502.2	1,599.6	94.8	1,029.0	363.4	(NA)	(NA)
1970 ASM	(NA)	(NA)	88.5	663.6	60.3	112.4	345.4	972.0	533.3	1,501.2	98.4	868.1	294.6	(NA)	(NA)
1969 ASM	(NA)	(NA)	98.8	706.3	69.3	137.4	389.0	1,061.4	544.6	1,572.9	143.6	821.1	295.8	(NA)	(NA)
1968 ASM	(NA)	(NA)	87.4	603.5	60.5	121.4	340.3	921.0	405.9	1,317.2	118.4	737.9	230.5	(NA)	(NA)
1967 Census	177	117	85.4	545.1	57.9	118.1	307.3	820.2	337.6	1,141.0	131.1	644.9	214.1	92	87
1966 ASM	(NA)	(NA)	82.2	494.2	59.1	118.1	274.3	835.3	316.7	1,123.7	123.6	(NA)	189.1	(NA)	(NA)
1965 ASM	(NA)	(NA)	67.4	401.4	48.7	98.9	228.0	680.1	241.5	911.7	61.3	(NA)	149.8	(NA)	(NA)
1964 ASM	(NA)	(NA)	55.3	327.2	37.9	77.4	176.0	514.8	205.1	716.4	43.4	379.4	124.7	(NA)	(NA)
1963 Census	107	87	56.3	320.9	37.5	77.1	168.5	467.0	199.4	687.8	52.4	368.5	118.2	88	92
1962 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	330.3	(NA)	(NA)	(NA)
1961 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census	48	42	23.4	113.0	17.6	34.7	65.9	186.8	75.5	250.3	16.2	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3675--ELECTRONIC CAPACITORS <sup>4</sup>															
1972 Census.....	113	101	27.7	169.2	22.5	44.6	119.6	298.7	152.9	445.8	13.3	(NA)	99.6	90	87
1967 Census <sup>5</sup> .....	124	(NA)	37.4	177.4	29.8	58.6	120.0	293.4	170.7	464.2	17.8	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>5</sup> .....	106	(NA)	32.5	137.9	25.7	50.0	94.0	220.9	112.7	333.9	9.9	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>5</sup> .....	82	(NA)	23.1	82.7	18.9	36.7	59.8	128.4	69.1	197.5	3.9	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3676--ELECTRONIC RESISTORS <sup>4</sup>															
1972 Census.....	86	78	20.5	144.4	15.7	31.3	93.9	263.6	111.6	372.2	10.4	(NA)	62.7	90	74
1967 Census <sup>5</sup> .....	92	(NA)	27.7	153.3	20.9	41.2	100.3	272.0	99.0	372.4	18.6	(NA)	(NA)	(NA)	(NA)
1963 Census <sup>5</sup> .....	98	(NA)	23.3	122.5	17.1	34.1	77.1	214.4	81.4	294.5	11.5	(NA)	(NA)	(NA)	(NA)
1958 Census <sup>5</sup> .....	63	(NA)	13.7	58.7	10.5	21.1	38.4	95.2	39.7	133.9	3.3	(NA)	(NA)	(NA)	(NA)
INDUSTRY 3677--ELECTRONIC COILS AND TRANSFORMERS <sup>4</sup>															
1972 Census.....	246	204	23.6	141.7	19.1	37.0	97.4	212.6	149.2	353.5	8.7	(NA)	59.2	87	79
INDUSTRY 3678--ELECTRONIC CONNECTORS <sup>4</sup>															
1972 Census.....	92	80	18.5	144.6	12.8	27.5	92.6	351.1	144.4	491.9	12.5	(NA)	98.7	87	81
1972 INDUSTRY 3679--ELECTRONIC COMPONENTS, N.E.C. <sup>6</sup>															
1972 Census.....	1,840	696	100.2	844.6	69.9	135.8	456.6	1,577.7	1,423.0	3,041.6	85.2	(NA)	481.2	80	72
1967 INDUSTRY 3679--ELECTRONIC COMPONENTS, N.E.C., (Old SIC Basis)															
1972 Census.....	2,377	1,159	190.5	1,444.5	140.0	276.2	860.1	2,688.5	1,981.1	4,689.6	130.1	(NA)	801.4	82	75
1971 ASM.....	(NA)	(NA)	192.7	1,513.4	128.8	253.5	769.2	2,500.1	1,971.1	4,515.0	215.0	1,841.7	1,001.3	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	212.2	1,609.8	147.3	289.9	826.7	2,719.7	2,038.7	4,623.1	233.1	1,869.2	1,154.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	248.8	1,656.1	178.1	349.0	945.5	2,815.6	2,061.7	4,771.0	223.5	1,385.8	1,006.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	235.8	1,464.2	171.9	336.6	853.3	2,507.9	1,907.3	4,424.6	175.3	1,269.0	856.0	(NA)	(NA)
1967 Census.....	2,068	1,213	251.3	1,453.6	185.0	359.6	864.3	2,612.2	2,234.1	4,809.4	176.1	(NA)	873.8	83	85
1966 ASM.....	(NA)	(NA)	233.8	1,255.7	185.3	373.9	805.7	2,419.2	1,684.0	4,001.8	171.7	(NA)	706.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	199.2	1,029.1	152.9	308.4	655.9	1,890.2	1,301.8	3,075.0	142.4	(NA)	534.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	165.2	871.6	124.4	252.3	551.1	1,423.7	912.7	2,328.1	135.8	669.2	419.9	(NA)	(NA)
1963 Census.....	1,934	968	176.7	881.9	133.4	261.7	550.8	1,457.4	889.5	2,332.2	88.5	560.2	392.0	89	78
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	491.9	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	1,431	695	108.9	451.0	85.3	166.7	301.4	728.0	473.5	1,195.4	35.7	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 Industry 3651	1972 Industry 3652	1972 Industry 3661	1972 Industry 3662	1972 Industry 3671	1972 Industry 3672	1972 Industry 3673	1972 Industry 3674	1972 Industry 3675	1972 Industry 3676	1972 Industry 3677	1972 Industry 3678	1967 Industry 3679
1972.....	344	538	158	1,521	21	69	43	288	78	67	215	76	1,745
1967.....	303	306	82	1,111	28	95	43	141	(NA)	(NA)	(NA)	(NA)	1,775
1963.....	322	128	65	1,001	30	148	45	86	(NA)	(NA)	(NA)	(NA)	1,743

(NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Some of the small establishments in this industry may have been misclassified as to industry. This does not significantly affect the statistics other than the number of establishments or number of companies.

<sup>3</sup>The value of shipments and cost of materials for this industry include extensive duplication arising from shipments between establishments in the same industry classification.

<sup>4</sup>This industry is published as a separate industry for the first time in 1972, comparable data for prior years are limited to that shown here.

<sup>5</sup>Source: Table 8, "General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization" for the 1967, 1963, and 1958 censuses of manufactures.

<sup>6</sup>Industry 3679 for 1972 is not comparable to industry 3679 for prior years. The sum of 1972 SIC industries 3675, 3676, 3677, 3678, and 3679 is equivalent to 1967 SIC industry 3679. Data for industry 3679 based on the SIC used prior to 1972 are presented below.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3651.--RADIO AND TV RECEIVING SETS											
1972 Census.....	7,530	(NA)	81	1,895	3.43	.61	.76	(NA)	20,900	36	13.67
1971 ASM.....	7,139	6,530	78	1,909	3.27	.61	.77	.14	17,102	42	11.49
1970 ASM.....	6,767	6,600	76	1,911	3.00	.61	.77	.16	15,503	44	10.64
1969 ASM.....	6,204	5,470	80	1,923	2.72	.63	.79	.14	15,023	41	9.72
1968 ASM.....	5,932	4,800	82	1,909	2.65	.62	.78	.13	13,850	43	8.88
1967 Census.....	5,515	4,530	82	1,906	2.52	.65	.81	.14	12,035	46	7.66
1966 ASM.....	5,219	(NA)	84	1,949	2.38	.63	.80	(NA)	12,865	41	7.83
1965 ASM.....	5,344	(NA)	83	2,000	2.37	.62	.79	(NA)	12,477	43	7.52
1964 ASM.....	5,094	3,430	82	1,972	2.24	.61	.78	.12	11,369	45	7.04
1963 Census.....	5,069	3,410	82	1,931	2.25	.62	.80	.12	11,222	45	7.10
1962 ASM.....	4,923	3,030	80	1,926	2.15	.61	.81	.12	10,476	47	6.83
1961 ASM.....	4,815	(NA)	78	1,882	2.14	.60	.80	(NA)	9,485	51	6.50
1960 ASM.....	4,748	(NA)	78	1,928	2.05	.60	.80	(NA)	9,678	49	6.40
1959 ASM.....	4,533	(NA)	80	1,931	1.99	.61	.80	(NA)	9,711	47	6.26
1958 Census.....	4,401	(NA)	78	1,931	1.96	.60	.79	(NA)	8,931	49	5.91
INDUSTRY 3652.--PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPE											
1972 Census.....	7,216	(NA)	78	1,937	3.25	.34	.60	(NA)	18,502	39	12.19
1971 ASM.....	6,856	8,070	78	1,993	3.03	.38	.64	.30	16,823	41	10.81
1970 ASM.....	6,182	7,490	77	1,993	2.77	.38	.64	.32	15,070	41	9.82
1969 ASM.....	5,971	6,470	79	2,050	2.55	.37	.62	.28	15,046	40	9.24
1968 ASM.....	5,869	6,360	79	2,079	2.52	.35	.60	.29	14,366	41	8.79
1967 Census.....	5,632	6,900	81	2,018	2.43	.34	.62	.34	13,404	42	8.21
1966 ASM.....	5,260	(NA)	82	1,991	2.38	.31	.58	(NA)	14,201	37	8.66
1965 ASM.....	5,166	(NA)	82	2,036	2.23	.32	.58	(NA)	13,930	37	8.37
1964 ASM.....	4,862	5,730	82	1,984	2.19	.27	.51	.27	15,464	31	9.56
1963 Census.....	4,917	5,170	79	1,985	2.20	.30	.56	.28	13,124	37	8.35
1962 ASM.....	4,942	5,110	77	2,040	2.18	.33	.57	.25	13,782	36	8.76
1961 ASM.....	4,724	(NA)	79	1,993	2.12	.33	.57	(NA)	13,054	36	8.33
1960 ASM.....	4,582	(NA)	79	2,054	1.98	.35	.60	(NA)	12,194	38	7.51
1959 ASM.....	4,632	(NA)	79	2,083	2.01	.39	.62	(NA)	12,107	38	7.33
1958 Census.....	4,498	(NA)	79	2,075	1.95	.39	.62	(NA)	12,543	36	7.66
INDUSTRY 3661.--TELEPHONE AND TELEGRAPH APPARATUS											
1972 Census.....	9,836	(NA)	70	1,862	4.66	.44	.73	(NA)	19,702	50	15.02
1971 ASM.....	9,245	11,340	70	1,893	4.23	.41	.72	.37	17,893	52	13.47
1970 ASM.....	8,671	9,630	72	1,957	3.93	.43	.74	.34	16,750	52	11.96
1969 ASM.....	8,382	9,930	72	1,970	3.81	.41	.72	.37	16,265	52	11.51
1968 ASM.....	7,621	9,530	71	1,898	3.57	.41	.72	.39	14,547	52	10.72
1967 Census.....	7,174	9,150	72	1,909	3.37	.42	.74	.41	13,316	54	9.68
1966 ASM.....	6,927	(NA)	73	1,929	3.20	.43	.75	(NA)	12,709	55	9.04
1965 ASM.....	6,901	(NA)	74	1,995	3.13	.43	.74	(NA)	13,318	52	9.07
1964 ASM.....	6,703	9,360	72	1,957	3.10	.42	.75	.45	12,008	56	8.53
1963 Census.....	6,197	9,550	72	1,918	2.92	.41	.72	.49	11,332	55	8.26
1962 ASM.....	6,291	8,480	69	1,995	2.78	.42	.75	.44	10,384	61	7.53
1961 ASM.....	6,095	(NA)	68	1,988	2.73	.41	.75	(NA)	10,887	56	8.09
1960 ASM.....	6,055	(NA)	70	2,030	2.66	.42	.78	(NA)	9,669	63	6.82
1959 ASM.....	5,774	(NA)	70	1,992	2.57	.41	.77	(NA)	9,927	58	7.14
1958 Census.....	5,380	(NA)	68	1,942	2.55	.39	.75	(NA)	8,937	60	6.78
INDUSTRY 3662.--RADIO AND TV COMMUNICATION EQUIPMENT											
1972 Census.....	11,245	(NA)	51	1,981	4.51	.37	.76	(NA)	18,173	62	18.64
1971 ASM.....	10,637	7,100	47	1,954	4.33	.35	.75	.26	16,730	64	18.11
1970 ASM.....	9,710	6,030	48	1,974	3.96	.35	.76	.25	15,142	64	16.11
1969 ASM.....	9,586	5,190	49	2,009	3.78	.36	.77	.22	14,946	64	15.06
1968 ASM.....	9,024	4,710	52	2,026	3.57	.39	.79	.21	14,429	63	13.80
1967 Census.....	8,708	4,310	54	2,025	3.38	.40	.82	.21	13,342	65	12.20
1966 ASM.....	8,195	(NA)	55	1,995	3.19	.40	.81	(NA)	12,890	64	11.69
1965 ASM.....	7,973	(NA)	53	2,040	3.11	.37	.78	(NA)	12,323	65	11.48
1964 ASM.....	7,469	3,740	51	2,023	3.18	.36	.76	.20	12,052	62	11.58
1963 Census.....	7,332	3,200	53	2,038	2.94	.40	.79	.17	11,172	66	10.33
1962 ASM.....	7,393	3,240	51	2,137	3.17	.44	.82	.17	11,236	66	10.28
1961 ASM.....	7,029	(NA)	49	2,176	2.81	.45	.83	(NA)	10,273	68	9.69
1960 ASM.....	6,685	(NA)	53	2,186	2.66	.48	.84	(NA)	10,009	67	8.64
1959 ASM.....	6,343	(NA)	58	2,045	2.58	.51	.84	(NA)	9,785	65	8.30
1958 Census.....	5,987	(NA)	57	2,014	2.43	.45	.77	(NA)	10,096	59	8.74

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3671.--ELECTRON TUBES, RECEIVING TYPE											
1972 Census.....	7,692	(NA)	83	1,915	3.50	.25	.62	(NA)	15,245	50	9.55
1971 ASM.....	7,205	8,850	86	1,905	3.28	.24	.60	.44	14,992	48	9.15
1970 ASM.....	6,706	8,170	85	1,852	3.07	.25	.63	.46	13,070	51	8.27
1969 ASM.....	6,503	7,140	86	1,850	2.93	.25	.64	.42	12,661	51	7.96
1968 ASM.....	6,139	6,740	86	1,875	2.75	.27	.65	.42	11,872	52	7.40
1967 Census.....	5,633	6,120	86	1,800	2.65	.24	.64	.43	10,700	53	6.94
1966 ASM.....	5,802	(NA)	85	1,987	2.51	.26	.68	(NA)	10,042	58	5.92
1965 ASM.....	5,550	(NA)	82	1,992	2.44	.25	.67	(NA)	9,610	58	6.08
1964 ASM.....	5,406	6,250	81	1,876	2.36	.24	.67	.49	9,222	59	6.04
1963 Census.....	5,291	5,270	79	1,850	2.35	.24	.66	.42	9,698	55	6.65
1962 ASM.....	5,066	5,110	80	1,892	2.29	.23	.67	.44	8,998	56	5.91
1961 ASM.....	4,845	(NA)	80	1,822	2.22	.25	.67	(NA)	8,496	57	5.84
1960 ASM.....	4,479	(NA)	81	1,756	2.09	.26	.67	(NA)	8,291	54	5.84
1959 ASM.....	4,364	(NA)	81	1,848	2.02	.25	.64	(NA)	8,660	50	5.77
1958 Census.....	4,045	(NA)	84	1,852	1.93	.24	.63	(NA)	7,731	52	4.99
INDUSTRY 3672.--CATHODE RAY TELEVISION PICTURE TUBES											
1972 Census.....	9,728	(NA)	80	1,991	4.00	.52	.73	(NA)	22,880	43	14.22
1971 ASM.....	8,622	18,520	72	1,984	3.54	.49	.74	.54	17,372	50	12.25
1970 ASM.....	7,677	16,630	71	1,920	3.29	.50	.78	.62	13,620	56	9.94
1969 ASM.....	7,034	15,850	71	1,982	3.05	.47	.71	.53	16,735	46	10.93
1968 ASM.....	6,445	12,710	71	1,958	2.85	.46	.68	.44	16,048	40	11.61
1967 Census.....	6,250	12,150	72	2,010	2.68	.43	.64	.40	16,757	37	11.56
1966 ASM.....	6,338	(NA)	79	2,181	2.60	.45	.64	(NA)	19,101	33	11.06
1965 ASM.....	6,766	(NA)	75	2,208	2.60	.41	.62	(NA)	19,136	35	11.50
1964 ASM.....	6,536	10,490	71	2,230	2.44	.48	.72	.38	14,365	46	9.02
1963 Census.....	6,128	9,170	73	2,090	2.43	.53	.78	.37	11,758	52	7.72
1962 ASM.....	5,906	12,720	80	2,057	2.46	.62	.86	.52	9,312	63	5.68
1961 ASM.....	5,476	(NA)	81	2,047	2.30	.56	.79	(NA)	11,213	49	6.74
1960 ASM.....	5,364	(NA)	82	2,024	2.32	.58	.82	(NA)	9,609	56	5.77
1959 ASM.....	5,270	(NA)	80	2,093	2.25	.55	.77	(NA)	10,785	49	6.42
1958 Census.....	4,453	(NA)	81	2,039	1.94	.58	.82	(NA)	7,888	56	4.76
INDUSTRY 3673.--ELECTRON TUBES, TRANSMITTING											
1972 Census.....	11,404	(NA)	60	2,056	4.58	.29	.78	(NA)	16,721	68	13.55
1971 ASM.....	10,777	13,030	66	1,978	4.61	.28	.71	.52	17,892	60	13.82
1970 ASM.....	9,922	10,200	63	2,067	4.17	.27	.70	.44	17,084	58	13.19
1969 ASM.....	9,218	9,250	66	2,092	3.85	.29	.71	.42	15,419	60	11.08
1968 ASM.....	8,594	8,430	68	2,078	3.54	.31	.72	.40	14,326	60	10.07
1967 Census.....	8,011	8,350	69	2,071	3.22	.35	.74	.41	13,165	61	9.18
1966 ASM.....	7,743	(NA)	68	2,000	3.25	.34	.75	(NA)	12,931	60	9.50
1965 ASM.....	7,791	(NA)	65	2,049	3.15	.34	.78	(NA)	12,107	64	9.03
1964 ASM.....	7,219	8,920	63	2,048	3.12	.31	.74	.53	11,531	63	8.91
1963 Census.....	6,913	7,330	62	2,066	3.01	.32	.75	.46	10,940	63	8.52
1962 ASM.....	6,291	5,130	61	2,046	2.72	.33	.71	.32	11,060	57	8.89
1961 ASM.....	6,051	(NA)	61	2,039	2.60	.34	.76	(NA)	9,680	63	7.75
1960 ASM.....	5,634	(NA)	61	2,025	2.41	.34	.77	(NA)	9,136	62	7.35
1959 ASM.....	5,436	(NA)	64	2,049	2.34	.34	.76	(NA)	8,886	61	6.78
1958 Census.....	5,070	(NA)	72	2,036	2.21	.35	.75	(NA)	8,230	62	5.63
INDUSTRY 3674.--SEMICONDUCTORS AND RELATED DEVICES											
1972 Census.....	9,761	(NA)	60	1,990	3.61	.34	.70	(NA)	17,772	55	14.91
1971 ASM.....	8,810	13,780	61	1,978	3.33	.31	.73	.64	14,408	61	11.96
1970 ASM.....	7,498	9,810	68	1,864	3.07	.36	.80	.58	10,983	68	8.65
1969 ASM.....	7,149	8,310	70	1,983	2.83	.35	.80	.52	10,743	67	7.72
1968 ASM.....	6,905	8,440	69	2,007	2.80	.31	.77	.56	10,538	66	7.59
1967 Census.....	6,383	7,550	68	2,040	2.60	.30	.77	.57	9,596	67	6.94
1966 ASM.....	6,011	(NA)	72	1,999	2.32	.28	.72	(NA)	10,159	59	7.07
1965 ASM.....	5,956	(NA)	72	2,032	2.30	.26	.71	(NA)	10,091	59	6.88
1964 ASM.....	5,920	6,860	69	2,040	2.27	.29	.74	.53	9,312	64	6.65
1963 Census.....	5,694	6,550	67	2,054	2.19	.29	.76	.54	8,288	69	6.06
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	4,835	(NA)	75	1,968	1.90	.30	.75	(NA)	7,993	60	5.38

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3675.--ELECTRONIC CAPACITORS											
1972 Census.....	6,108	(NA)	81	1,982	2.68	.34	.72	(NA)	10,783	57	6.70
INDUSTRY 3676.--ELECTRONIC RESISTORS											
1972 Census.....	7,043	(NA)	77	1,993	3.00	.30	.69	(NA)	12,858	55	8.42
INDUSTRY 3677.--ELECTRONIC COILS AND TRANSFORMERS											
1972 Census.....	6,004	(NA)	81	1,938	2.63	.42	.82	(NA)	9,008	67	5.75
INDUSTRY 3678.--ELECTRONIC CONNECTORS											
1972 Census.....	7,816	(NA)	69	2,148	3.37	.29	.59	(NA)	18,978	41	12.77
INDUSTRY 3679.--ELECTRONIC COMPONENTS, N.E.C.											
1972 Census.....	8,429	(NA)	70	1,943	3.37	.46	.74	(NA)	15,745	53	11.62

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3675.--Electronic Capacitors.....	113	101	27.7	298.7	445.8	(X)	(X)	(X)	(X)	(X)
Old industry 3679.--Electronic Components, N.E.C.....	113	101	27.7	298.7	445.8	2,377	1,159	190.5	2,688.5	4,689.8
New industry 3676.--Electronic Resistors.....	86	78	20.5	263.6	372.2	(X)	(X)	(X)	(X)	(X)
Old industry 3679.--Electronic Components, N.E.C.....	86	78	20.5	263.6	372.2	2,377	1,159	190.5	2,688.5	4,689.8
New industry 3677.--Electronic Coils and Transformers....	246	204	23.6	212.6	353.5	(X)	(X)	(X)	(X)	(X)
Old industry 3679.--Electronic Components, N.E.C.....	246	204	23.6	212.6	353.5	2,377	1,159	190.5	2,688.5	4,689.8
New industry 3678.--Electronic Connectors.....	92	80	18.5	351.1	491.9	(X)	(X)	(X)	(X)	(X)
Old industry 3679.--Electronic Components, N.E.C.....	92	80	18.5	351.1	491.9	2,377	1,159	190.5	2,688.5	4,689.8
New industry 3679.--Electronic Components, N.E.C.....	1,840	696	100.2	1,577.7	3,041.6	(X)	(X)	(X)	(X)	(X)
Old industry 3679.--Electronic Components, N.E.C.....	1,840	696	100.2	1,577.7	3,041.6	2,377	1,159	190.5	2,688.5	4,689.8

(X) Not applicable.



TABLE 2 General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3651-- RADIO AND TV RECEIVING SETS													
UNITED STATES. . . . .	372	164	86.5	651.4	69.8	132.3	453.6	1 807.9	2 715.4	4 440.1	58.6	(NA)	(NA)
NORTHEAST REGION. . . . .	125	56	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28.2	297.3
NEW ENGLAND DIVISION. . . . .	31	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	34.3
MASSACHUSETTS. . . . .	21	13	2.4	14.2	1.6	2.5	7.7	40.7	51.3	90.2	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION. . . . .	94	41	11.5	94.7	8.1	16.7	55.5	180.9	308.3	487.4	(D)	25.4	263.0
NEW YORK. . . . .	57	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.9	143.0
NEW JERSEY. . . . . E2	25	10	.7	4.1	.6	1.0	2.8	9.0	8.0	16.1	.2	FF	(D)
PENNSYLVANIA. . . . .	12	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION. . . . .	107	55	49.4	393.0	41.5	77.7	291.6	1 105.9	1 694.2	2 760.2	40.3	65.7	767.2
EAST NORTH CENTRAL DIVISION. . . . .	89	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	11	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
INDIANA. . . . .	11	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS. . . . .	49	31	24.4	186.0	19.7	36.8	127.4	561.8	998.9	1 533.1	25.9	38.1	383.3
MICHIGAN. . . . .	14	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN. . . . . E2	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	18	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MINNESOTA. . . . .	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
IDWA. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	13.3
MISSOURI. . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
SOUTH REGION. . . . .	59	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.0	284.9
SOUTH ATLANTIC DIVISION. . . . .	24	7	8.7	56.4	7.4	14.1	37.6	150.7	217.9	362.7	2.2	4.4	54.0
VIRGINIA. . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CAROLINA. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA. . . . .	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	18	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.5	195.6
KENTUCKY. . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	17	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	35.3
ARKANSAS. . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OKLAHOMA. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
TEXAS. . . . .	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION. . . . . E1	81	28	4.5	33.0	3.0	5.7	18.0	73.2	92.8	164.4	3.0	4.7	55.0
MOUNTAIN DIVISION. . . . . E1	11	2	.6	3.8	.6	1.2	3.2	7.6	1.3	8.9	(D)	(NA)	(NA)
ARIZONA. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	70	26	3.9	29.2	2.4	4.5	14.8	65.6	91.5	155.5	(D)	FF	(D)
CALIFORNIA. . . . . E1	67	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	54.5
3652-- PHONO. RECORDS, PRERECORDED TAPE													
UNITED STATES. . . . . E1	567	119	20.3	146.5	15.9	30.8	100.0	375.6	191.5	567.7	16.9	(NA)	(NA)
NORTHEAST REGION. . . . . E1	195	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	81.7
MIDDLE ATLANTIC DIVISION. . . . . E1	178	39	6.4	45.1	4.9	9.4	30.5	103.7	63.4	166.1	(D)	6.0	79.4
NEW YORK. . . . . E2	129	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	20.0
NEW JERSEY. . . . .	32	16	3.0	22.3	2.4	4.7	16.0	41.5	28.5	68.6	1.2	3.6	52.0
PENNSYLVANIA. . . . .	17	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.4
NORTH CENTRAL REGION. . . . .	74	22	7.6	55.6	5.8	11.7	38.1	156.4	66.9	224.5	7.5	4.8	62.5
EAST NORTH CENTRAL DIVISION. . . . .	63	20	7.4	54.6	5.7	11.4	37.4	153.6	64.8	219.7	(D)	FF	(D)
OHIO. . . . . E4	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	53.9
ILLINOIS. . . . .	22	9	1.8	13.3	1.3	2.6	8.2	43.5	12.0	62.7	1.2	.8	5.5
MICHIGAN. . . . . E5	18	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION. . . . . E2	134	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.4
SOUTH ATLANTIC DIVISION. . . . . E3	43	9	.6	3.7	.5	.9	2.6	6.6	6.9	13.7	.6	(NA)	(NA)
VIRGINIA. . . . .	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . . E1	17	4	.2	1.1	.2	.7	2.4	1.4	3.8	.3	(NA)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . . E1	61	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.4
TENNESSEE. . . . . E1	47	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSISSIPPI. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . . E5	30	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E6	22	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . . E1	164	33	4.7	34.5	3.7	7.1	24.4	83.5	40.5	124.5	3.7	2.2	32.7
MOUNTAIN DIVISION. . . . . E3	13	2	.2	.9	.1	.2	.6	1.5	1.1	2.7	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	151	31	4.5	33.7	3.6	6.9	23.8	82.0	39.4	121.8	(D)	EE	(D)
CALIFORNIA. . . . . E1	142	30	4.4	33.1	3.5	7.0	23.4	81.0	38.8	120.1	3.7	2.2	32.3
3661-- TELEPHONE AND TELEGRAPH APPARATUS													
UNITED STATES. . . . .	203	110	134.5	1 323.0	94.7	176.4	821.9	2 650.0	1 970.2	4 524.7	169.2	(NA)	(NA)
NORTHEAST REGION. . . . .	57	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW ENGLAND DIVISION. . . . .	16	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS. . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	9	7	1.0	8.4	.6	1.2	4.1	13.0	7.6	20.6	(D)	EE	(D)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3661-- TELEPHONE AND TELEGRAPH APPARATUS--CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION . . . . .	41	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	23	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.9	64.7
NEW JERSEY . . . . .	9	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA . . . . .	9	3	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	51	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION . . . . .	44	28	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA . . . . .	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS . . . . .	27	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WISCONSIN . . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST NORTH CENTRAL DIVISION . . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI . . . . .	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEBRASKA . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	51.2
SOUTH REGION . . . . .	44	25	34.9	310.0	26.9	51.3	209.8	725.0	597.7	1 282.8	(D)	FF	(D)
SOUTH ATLANTIC DIVISION . . . . .	18	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	55.3
VIRGINIA . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CAROLINA . . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
FLORIDA . . . . .	10	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	30.1
TENNESSEE . . . . .	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ALABAMA . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION . . . . .	19	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ARKANSAS . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
LOUISIANA . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OKLAHOMA . . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.1	62.9
TEXAS . . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	51	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	69.0
MOUNTAIN DIVISION . . . . .	10	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	4	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	41	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	69.0
WASHINGTON . . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
CALIFORNIA . . . . .	35	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662-- RADIO AND TV COMMUNICATION EQUIP.													
UNITED STATES . . . . .	1 772	920	319.1	3 588.5	161.8	320.6	1 446.7	5 799.3	3 336.9	9 133.8	212.2	(NA)	(NA)
NORTHEAST REGION . . . . .	621	338	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW ENGLAND DIVISION . . . . .	174	108	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MAINE . . . . .	4	4	.6	4.6	.5	1.1	3.0	8.8	4.0	12.7	(D)	AA	(D)
NEW HAMPSHIRE . . . . .	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS . . . . .	105	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	28.8	418.6
RHODE ISLAND . . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT . . . . .	46	31	8.3	88.0	3.5	7.2	27.3	166.7	68.0	237.7	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION . . . . .	447	230	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	232	116	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	66.1	860.5
NEW JERSEY . . . . .	132	73	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA . . . . .	83	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	291	134	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION . . . . .	218	95	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	52	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
INDIANA . . . . .	24	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.4	70.5
ILLINOIS . . . . .	81	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.7	190.2
MICHIGAN . . . . .	42	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	45.1
WISCONSIN . . . . .	19	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION . . . . .	73	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MINNESOTA . . . . .	28	14	2.3	16.2	1.5	2.8	8.6	36.4	20.5	55.4	1.4	FF	(D)
IOWA . . . . .	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI . . . . .	20	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEBRASKA . . . . .	7	6	.9	5.6	.5	1.2	3.1	11.2	6.2	16.6	.4	.5	4.0
KANSAS . . . . .	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
SOUTH REGION . . . . .	334	178	74.0	802.3	37.6	79.3	313.4	1 313.9	733.6	2 022.0	50.7	FF	(D)
SOUTH ATLANTIC DIVISION . . . . .	187	105	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND . . . . .	48	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.1	216.6
VIRGINIA . . . . .	30	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	97.4
WEST VIRGINIA . . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA . . . . .	13	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	57.8
SOUTH CAROLINA . . . . .	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA . . . . .	69	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.4	168.1
EAST SOUTH CENTRAL DIVISION . . . . .	36	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	46.3
KENTUCKY . . . . .	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE . . . . .	14	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ALABAMA . . . . .	12	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees¹	Value added by manufacture
	Total	With 20 employees or more	Number¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3662-- RADIO AND TV COMMUNICATION EQUIP.--CONTINUED													
SOUTH REGION--CONTINUED													
WEST SOUTH CENTRAL DIVISION. . .	111	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ARKANSAS . . . . .	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA . . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA . . . . .	15	8	1.3	10.6	1.0	2.1	6.4	17.1	12.2	27.3	.8	.9	9.1
TEXAS . . . . .	86	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION. . . . .	526	270	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	102.2	1 511.0
MOUNTAIN DIVISION. . . . .	73	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3	119.1
COLORADO . . . . . E1	20	7	1.6	16.5	1.3	2.5	11.7	14.4	17.2	38.6	.4	.8	6.0
NEW MEXICO . . . . .	11	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	6.0
ARIZONA . . . . .	23	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
UTAH . . . . .	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEVADA . . . . . E9	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	453	234	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	97.9	1 480.4
WASHINGTON . . . . .	26	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OREGON . . . . .	15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	412	216	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3671-- ELECTRON TUBES, RECEIVING TYPE													
UNITED STATES. . . . .	25	13	11.4	87.7	9.5	18.2	63.7	173.8	56.8	230.4	1.8	(NA)	(NA)
NORTHEAST REGION . . . . .	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.2	137.0
NEW ENGLAND DIVISION . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MASSACHUSETTS . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY . . . . .	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA . . . . .	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST NORTH CENTRAL DIVISION. . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION . . . . .	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION. . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3672-- CATHODE RAY TV PICTURE TUBES													
UNITED STATES. . . . .	75	21	15.1	146.9	12.2	24.3	97.3	345.5	359.1	696.5	26.2	(NA)	(NA)
NORTHEAST REGION . . . . .	19	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.7	101.4
MIDDLE ATLANTIC DIVISION . . . . .	18	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY . . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION . . . . .	20	8	9.0	80.6	7.4	15.2	59.7	174.0	204.8	373.3	19.8	.6	5.3
EAST NORTH CENTRAL DIVISION. . .	23	8	9.0	80.5	7.4	15.2	59.7	173.9	204.6	373.1	19.8	FF	(D)
OHIO . . . . .	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA . . . . .	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS . . . . .	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION . . . . .	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.4
SOUTH ATLANTIC DIVISION. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3673-- ELECTRON TUBES, TRANSMITTING													
UNITED STATES. . . . .	53	38	20.5	233.8	12.3	25.3	115.8	342.8	138.0	479.3	13.5	(NA)	(NA)
NORTHEAST REGION . . . . .	28	20	11.8	120.8	6.5	13.7	56.7	166.9	76.4	242.5	7.3	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	14	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW HAMPSHIRE . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS . . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY . . . . . E1	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA . . . . .	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NORTH CENTRAL REGION . . . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.3
ILLINOIS . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION . . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
VIRGINIA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
FLORIDA . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
WEST REGION. . . . .	14	11	7.5	102.4	5.0	10.1	52.8	157.9	52.8	206.8	5.4	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
UTAH . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION . . . . .	12	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA . . . . .	12	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3674-- SEMICONDUCTORS, RELATED DEVICES													
UNITED STATES. . . . .	325	196	97.0	946.8	58.1	115.6	417.0	1 723.8	923.2	2 686.9	170.3	(NA)	(NA)
NORTHEAST REGION . . . . .	139	86	36.7	395.9	18.9	37.2	137.0	659.2	464.4	1 188.7	50.6	36.3	342.9
NEW ENGLAND DIVISION . . . . .	51	32	10.4	100.1	5.6	11.2	30.1	164.4	188.4	375.2	9.6	FF	(D)
MAINE. . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
VERMONT. . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	34	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
RHODE ISLAND. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT. . . . .	8	5	.4	3.1	.3	.5	1.6	5.7	2.2	7.7	.1	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	87	53	26.2	295.2	13.2	25.8	106.4	493.5	275.1	811.3	56.0	FF	(D)
NEW YORK. . . . .	38	23	13.1	163.4	5.0	10.6	40.2	270.5	176.1	496.6	19.8	6.3	54.7
NEW JERSEY. . . . .	E2 30	18	2.8	29.9	1.1	2.1	7.4	17.8	8.4	26.6	2.8	4.8	35.9
PENNSYLVANIA. . . . .	19	12	10.3	101.9	7.2	13.1	58.8	205.3	90.6	288.2	33.4	FF	(D)
NORTH CENTRAL REGION . . . . .	28	14	2.6	21.0	2.0	3.8	12.7	46.4	18.7	63.9	2.2	FF	(D)
EAST NORTH CENTRAL DIVISION. . . . .	21	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	4	2	.2	1.3	.1	.2	.6	2.5	1.1	3.4	(D)	EE	(D)
MICHIGAN. . . . .	5	3	.2	1.8	.1	.2	.5	2.2	.8	3.0	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MINNESOTA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	35	21	21.1	201.9	14.6	31.0	115.8	434.6	154.3	588.7	46.8	FF	(D)
SOUTH ATLANTIC DIVISION. . . . .	20	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA. . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
FLORIDA. . . . .	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS. . . . .	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION. . . . .	123	75	36.7	328.1	22.5	43.6	151.5	583.5	285.7	845.7	55.6	28.7	319.4
MOUNTAIN DIVISION. . . . .	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
IDAHO. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
UTAH. . . . .	E0 1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION . . . . .	110	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA. . . . .	108	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3675-- ELECTRONIC CAPACITORS													
UNITED STATES. . . . .	113	101	27.7	169.2	22.5	44.6	119.6	298.7	152.9	445.8	13.3	(NA)	(NA)
NORTHEAST REGION . . . . .	44	37	9.1	56.7	7.1	13.7	37.3	102.9	39.6	139.9	3.7	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	17	17	5.3	31.8	4.5	8.6	22.6	62.6	21.8	81.6	1.6	(NA)	(NA)
MAINE. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	27	20	3.8	24.9	2.6	5.1	14.6	40.3	17.8	58.3	2.1	(NA)	(NA)
NEW YORK. . . . .	9	6	1.4	9.0	1.0	1.8	5.7	15.8	4.0	19.7	(D)	(NA)	(NA)
NEW JERSEY. . . . .	10	7	.7	4.5	.5	.9	2.7	8.7	4.3	12.8	.6	(NA)	(NA)
PENNSYLVANIA. . . . .	8	7	1.8	11.4	1.2	2.4	6.3	15.9	9.5	25.8	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	21	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	19	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	26	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	15	15	9.0	53.3	7.7	15.7	40.3	91.4	55.1	145.9	4.9	(NA)	(NA)
VIRGINIA. . . . .	5	5	1.5	9.0	1.4	2.8	7.1	15.9	7.7	23.3	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	3	3	1.6	9.1	1.4	2.9	7.7	22.7	11.1	34.2	1.1	(NA)	(NA)
SOUTH CAROLINA. . . . .	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	8	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	22	20	3.3	21.3	2.6	5.2	13.8	34.8	15.1	48.1	2.1	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	20	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	20	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3676-- ELECTRONIC RESISTORS													
UNITED STATES. . . . .	86	78	20.5	144.4	15.7	31.3	93.9	263.6	111.6	372.2	10.4	(NA)	(NA)
NORTHEAST REGION . . . . .	36	33	6.7	48.5	5.2	10.7	33.7	83.9	35.3	118.2	3.4	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	13	13	2.1	13.6	1.5	2.9	7.2	22.6	8.4	31.1	.7	(NA)	(NA)
NEW HAMPSHIRE. . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	23	20	4.5	35.0	3.8	7.8	26.5	61.3	26.9	87.1	2.8	(NA)	(NA)
NEW YORK. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY. . . . .	9	9	EE	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	19	16	7.2	54.3	5.4	10.5	34.3	98.7	38.5	135.4	3.9	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDWA. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	14	14	3.6	21.3	3.0	5.8	15.3	49.6	18.4	67.1	2.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	5	5	1.7	10.8	1.4	2.9	8.2	26.8	8.3	35.0	1.3	(NA)	(NA)
FLORIDA. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	17	15	3.1	20.3	2.1	4.2	10.6	31.5	19.4	51.4	.6	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	3	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO. . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	14	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	14	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3677-- ELECTRONIC COILS AND TRANSFORMERS													
UNITED STATES. . . . .	246	204	23.6	141.7	19.1	37.0	97.4	212.6	149.2	353.5	8.7	(NA)	(NA)
NORTHEAST REGION . . . . .	75	62	7.8	55.5	6.1	12.3	37.6	69.1	40.9	105.8	3.8	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	17	17	1.2	6.6	1.1	2.0	4.7	9.4	7.2	16.8	.2	(NA)	(NA)
MASSACHUSETTS. . . . .	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	6	6	.4	2.2	.4	.7	1.6	2.8	2.4	5.5	.1	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	58	45	6.6	48.9	5.1	10.3	32.9	59.7	33.7	89.0	3.6	(NA)	(NA)
NEW YORK. . . . .	32	25	4.4	34.1	3.2	6.7	22.2	31.8	21.3	48.8	2.1	(NA)	(NA)
NEW JERSEY. . . . .	17	12	.9	5.2	.7	1.2	3.3	8.3	5.6	13.8	.2	(NA)	(NA)
PENNSYLVANIA. . . . .	9	8	1.3	9.5	1.2	2.4	7.4	19.6	6.8	26.5	1.3	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	109	95	11.3	60.9	9.4	17.7	42.9	98.7	82.4	179.4	4.0	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	91	78	9.0	48.0	7.6	14.3	34.9	76.2	68.8	143.2	3.5	(NA)	(NA)
OHIO. . . . .	10	9	1.4	8.6	1.1	2.0	5.9	14.7	10.5	24.7	.2	(NA)	(NA)
INDIANA. . . . .	14	12	2.1	10.5	1.9	3.7	8.7	16.7	18.5	34.9	(D)	(NA)	(NA)
ILLINOIS. . . . .	53	45	4.2	22.4	3.5	6.6	16.0	33.3	29.7	62.1	2.4	(NA)	(NA)
MICHIGAN. . . . .	8	6	.6	3.2	.5	.9	1.8	5.9	6.0	11.8	.2	(NA)	(NA)
WISCONSIN. . . . .	6	6	.7	3.4	.6	1.2	2.4	5.6	4.1	9.7	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	18	17	2.3	12.9	1.8	3.4	8.0	22.5	13.6	36.2	.5	(NA)	(NA)
MINNESOTA. . . . .	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDWA. . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH DAKOTA. . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	22	17	2.6	12.1	2.1	4.2	8.7	21.6	15.3	34.1	.6	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	13	10	1.4	6.9	1.1	2.2	4.7	12.6	6.2	16.5	.2	(NA)	(NA)
WEST VIRGINIA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA. . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	10	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	4	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	40	30	1.9	13.3	1.5	2.8	8.2	23.2	10.7	34.1	.4	(NA)	(NA)
PACIFIC DIVISION. . . . .	38	28	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	36	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3678-- ELECTRONIC CONNECTORS													
UNITED STATES. . . . .	92	80	18.5	144.6	12.8	27.5	92.6	351.1	144.4	491.9	12.5	(NA)	(NA)
NORTHEAST REGION. . . . .	39	34	9.6	78.7	7.2	14.6	51.2	189.8	77.8	266.8	5.8	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	16	13	2.1	16.6	1.7	3.5	11.8	40.6	18.3	58.5	1.2	(NA)	(NA)
NEW HAMPSHIRE. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	6	3	.2	1.9	.2	.3	1.2	4.1	2.6	6.6	.1	(NA)	(NA)
RHODE ISLAND. . . . .	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	6	6	1.5	12.4	1.3	2.5	8.8	31.8	12.9	44.5	.8	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	23	21	7.5	62.0	5.4	11.1	39.4	149.3	65.6	208.3	4.6	(NA)	(NA)
NEW YORK. . . . .	11	11	4.8	40.0	3.2	6.7	23.7	64.3	21.8	87.8	(D)	(NA)	(NA)
NEW JERSEY. . . . .	3	3	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	22	20	4.7	36.3	3.3	6.4	22.6	86.3	39.5	125.3	3.3	(NA)	(NA)
EAST NDRTH CENTRAL DIVISION. . . . .	16	14	4.2	33.0	3.0	5.8	20.7	78.8	37.3	115.7	3.2	(NA)	(NA)
OHIO. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	3	3	PB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	6	6	.6	3.3	.3	.6	2.0	7.5	2.2	9.6	.1	(NA)	(NA)
MINNESOTA. . . . .	2	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	7	6	1.1	5.6	1.0	1.8	4.6	29.5	6.6	35.4	.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	2	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	2	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS. . . . .	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	24	20	3.2	24.0	2.3	4.8	14.2	45.4	20.6	64.4	1.6	(NA)	(NA)
PACIFIC DIVISION. . . . .	23	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	22	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3679-- ELECTRONIC COMPONENTS, NEC													
UNITED STATES. . . . .	1 840	696	100.7	844.6	69.9	135.8	456.6	1 577.7	1 423.0	3 041.6	85.2	(NA)	(NA)
NDRTHEAST REGION. . . . .	713	304	42.6	399.3	27.4	54.3	195.4	765.3	856.9	1 684.0	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	E1 233	108	11.7	94.5	8.1	16.4	50.9	175.5	102.9	281.2	(D)	(NA)	(NA)
MAINE. . . . .	3	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	15	7	1.0	7.1	.6	1.2	3.3	16.5	8.8	24.4	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	E1 140	70	7.1	58.8	4.9	9.7	31.4	107.0	58.2	167.7	(D)	(NA)	(NA)
RHODE ISLAND. . . . .	E3 11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	E1 64	27	3.1	24.9	2.1	4.6	13.7	42.8	31.5	76.1	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	480	196	31.0	304.8	19.3	37.9	144.5	589.8	754.0	1 402.8	(D)	(NA)	(NA)
NEW YORK. . . . .	230	93	18.9	212.6	10.4	21.2	91.5	412.7	660.2	1 135.7	(D)	(NA)	(NA)
NEW JERSEY. . . . .	165	67	6.7	53.4	4.8	9.1	29.4	111.3	58.2	168.0	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	85	36	5.3	38.8	4.0	7.6	23.6	65.8	35.6	99.1	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	371	160	28.9	208.5	23.1	43.7	140.2	354.0	292.0	641.0	16.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	283	117	21.8	154.2	17.4	32.9	105.3	255.9	225.2	477.9	12.5	(NA)	(NA)
OHIO. . . . .	E1 59	23	2.3	17.9	1.8	3.6	11.3	35.5	23.6	57.4	1.0	(NA)	(NA)
INDIANA. . . . .	30	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	130	62	12.3	86.0	9.6	18.2	58.5	155.4	109.0	262.8	(D)	(NA)	(NA)
MICHIGAN. . . . .	E1 35	8	1.5	9.6	1.1	2.1	5.7	9.4	17.3	29.3	.5	(NA)	(NA)
WISCONSIN. . . . .	29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NDRTH CENTRAL DIVISION. . . . .	88	43	7.1	54.3	5.6	10.8	35.0	98.1	68.5	163.1	4.3	(NA)	(NA)
MINNESOTA. . . . .	39	17	2.5	26.4	1.7	3.2	14.6	43.0	26.3	67.6	2.0	(NA)	(NA)
IONA. . . . .	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	19	10	1.1	7.0	.9	1.9	4.6	13.6	7.6	21.1	.4	(NA)	(NA)
SOUTH DAKOTA. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	E2 6	3	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS. . . . .	15	7	.9	4.7	.7	1.2	3.5	9.7	3.6	13.1	.6	(NA)	(NA)
SOUTH REGION. . . . .	E1 239	82	10.9	81.9	7.2	14.3	39.8	167.9	91.5	255.2	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	E1 123	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND. . . . .	E2 28	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DISTRICT OF COLUMBIA. . . . .	2	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA. . . . .	18	7	1.1	6.5	.9	1.6	4.3	27.4	8.5	35.6	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	E1 11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	E1 55	19	3.8	31.9	2.1	4.4	12.7	54.3	32.6	82.8	3.9	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	E1 29	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	15	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SDUTH CENTRAL DIVISION. . . . .	E1 87	25	2.1	14.5	1.5	3.0	7.5	28.6	16.4	44.8	(D)	(NA)	(NA)
ARKANSAS. . . . .	3	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . .	E2 21	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	E2 63	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	E1 517	150	17.7	154.9	12.2	23.4	81.1	290.5	179.9	461.3	25.3	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	E1 60	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO. . . . .	E1 20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	E1 24	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	E1 457	133	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON. . . . .	E5 15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON. . . . .	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	E1 431	126	15.2	137.7	10.5	20.1	71.1	258.7	161.5	412.5	(D)	(NA)	(NA)

See footnotes on next page.



Footnotes for table 2

E1--10 to 19 percent	E3--30 to 39 percent	E5--50 to 59 percent	E7--70 to 79 percent	E9--90 to 99 percent
E2--20 to 29 percent	E4--40 to 49 percent	E6--60 to 69 percent	E8--80 to 89 percent	E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees	BB--250 to 499 employees	CC--500 to 999 employees	EE--1,000 to 2,499 employees	FF--2,500 employees and over
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(See appendix: Explanation of Terms)

Item	Radio and TV receiving sets (SIC 3651)	Phonograph records and prerecorded magnetic tapes (SIC 3652)	Telephone and telegraph apparatus (SIC 3661)	Radio and TV communication equipment (SIC 3662)	Electron tubes, receiving type (SIC 3671)	Cathode ray television picture tubes (SIC 3672)	Electron tubes, transmitting (SIC 3673)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	95	98	91	91	83	91	68
COVERAGE RATIO <sup>2</sup> . . . . .00 . .	99	99	99	91	94	98	84
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	372	567	203	1 772	25	75	53
WITH 1 TO 19 EMPLOYEES . . . . .00 . .	208	448	93	852	12	54	15
WITH 20 TO 99 EMPLOYEES . . . . .00 . .	81	80	47	527	3	9	13
WITH 100 EMPLOYEES OR MORE . . . . .00 . .	83	39	63	393	10	12	25
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	86.5	20.3	134.5	319.1	11.4	15.1	20.5
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS .	651.4	146.5	1 323.0	3 588.5	87.7	146.9	233.8
PRODUCTION WORKERS:							
AVERAGE FOR YEAR . . . . .1,000 .	69.8	15.9	94.7	161.8	9.5	12.2	12.3
MARCH . . . . .00 . .	64.4	15.3	93.8	159.1	10.1	11.7	11.8
MAY . . . . .00 . .	67.4	15.1	93.2	159.4	9.7	12.0	12.0
AUGUST . . . . .00 . .	71.8	15.9	94.3	161.9	9.4	12.3	12.4
NOVEMBER . . . . .00 . .	75.8	17.2	97.5	166.8	8.9	12.9	13.1
MAN-HOURS . . . . .MILLIONS .	132.3	30.8	176.4	320.6	18.2	24.3	25.3
JANUARY-MARCH . . . . .00 . .	30.4	7.6	45.4	80.5	4.7	5.9	6.3
APRIL-JUNE . . . . .00 . .	32.4	7.3	45.3	80.3	4.8	6.1	6.3
JULY-SEPTEMBER . . . . .00 . .	32.7	7.7	40.4	77.0	4.3	5.7	6.0
OCTOBER-DECEMBER . . . . .00 . .	36.9	8.4	45.4	83.0	4.4	6.6	6.7
WAGES . . . . .MILLION DOLLARS .	453.6	100.0	821.9	1 446.7	63.7	97.3	115.8
COST OF MATERIALS, ETC., TOTAL . . . . .00 . .	2 715.4	191.5	1 970.2	3 336.9	56.8	359.1	138.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED .00 . .	2 197.1	169.5	1 839.0	2 998.8	43.8	335.4	114.0
COST OF RESALES . . . . .00 . .	475.8	7.6	88.5	142.8	5.8	14.6	7.8
FUELS CONSUMED . . . . .00 . .	3.3	2.5	8.1	11.2	.7	2.3	1.7
PURCHASED ELECTRIC ENERGY . . . . .00 . .	8.6	3.9	15.5	47.8	2.3	5.8	4.8
CONTRACT WORK . . . . .00 . .	29.6	8.0	19.3	136.5	4.2	.9	9.6
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . .00 . .	4 440.1	567.7	4 524.7	9 133.8	230.4	696.5	479.3
VALUE OF RESALES . . . . .00 . .	699.3	19.7	123.6	205.9	10.0	16.8	12.4
VALUE ADDED BY MANUFACTURE . . . . .00 . .	1 807.9	375.6	2 650.0	5 799.3	173.8	345.5	342.8
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . .00 . .	556.0	69.1	756.6	2 073.1	23.2	55.8	99.7
FINISHED PRODUCTS . . . . .00 . .	215.8	41.7	72.5	273.9	9.4	20.5	17.6
WORK IN PROCESS . . . . .00 . .	157.2	6.9	481.1	1 409.8	6.9	13.0	62.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 . .	183.0	20.4	199.9	389.2	6.9	22.3	20.1
END OF YEAR, TOTAL . . . . .00 . .	664.8	67.5	856.1	2 077.7	23.9	66.3	102.8
FINISHED PRODUCTS . . . . .00 . .	257.1	40.4	105.4	304.5	9.2	25.5	13.5
WORK IN PROCESS . . . . .00 . .	199.3	7.6	546.8	1 378.4	7.3	16.1	67.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 . .	208.7	19.6	203.8	395.3	7.4	24.7	21.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . .00 . .	61.8	22.4	186.5	235.7	2.2	26.3	14.0
NEW PLANT AND EQUIPMENT, TOTAL . . .00 . .	58.6	16.9	169.2	212.2	1.8	26.2	13.5
NEW STRUCTURES AND ADDITIONS TO PLANT . . .00 . .	21.4	3.7	20.1	51.9	.3	6.1	2.0
NEW MACHINERY AND EQUIPMENT . . . . .00 . .	37.2	13.2	149.1	160.3	1.6	20.1	11.5
USED PLANT AND EQUIPMENT . . . . .00 . .	3.1	5.5	17.3	23.5	.3	.1	.5

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1972—Continued

(See appendix, Explanation of Terms)

Item	Semiconduc- tors and related devices (SIC 3674)	Electronic capacitors (SIC 3675)	Electronic resistors (SIC 3676)	Electronic coils and transformers (SIC 3677)	Electronic connectors (SIC 3678)	Electronic components, n.e.c. (SIC 3679) <sup>1</sup>
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT	89	90	90	87	87	72
COVERAGE RATIO <sup>2</sup> . . . . .	92	87	74	79	81	80
ESTABLISHMENTS, TOTAL . . . . . NUMBER	325	113	86	246	92	1 840
WITH 1 TO 19 EMPLOYEES . . . . .	129	12	8	42	12	1 144
WITH 20 TO 99 EMPLOYEES . . . . .	96	38	29	129	38	482
WITH 100 EMPLOYEES OR MORE . . . . .	100	63	49	75	42	214
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000	97.0	427.7	20.5	23.6	18.5	100.2
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS	946.8	169.2	144.4	141.7	144.6	844.6
PRODUCTION WORKERS:						
AVERAGE FOR YEAR . . . . . 1,000	58.1	22.5	15.7	19.1	12.8	69.9
MARCH . . . . .	54.5	21.5	14.9	18.2	13.2	67.8
MAY . . . . .	55.9	22.0	15.3	18.3	13.5	68.4
AUGUST . . . . .	58.3	22.8	15.8	19.5	13.9	71.2
NOVEMBER . . . . .	63.9	23.6	16.8	20.5	14.7	73.0
MAN-HOURS . . . . . MILLIONS	115.6	44.6	31.3	37.0	27.5	135.8
JANUARY-MARCH . . . . .	27.5	10.5	7.3	8.7	6.6	32.8
APRIL-JUNE . . . . .	28.6	11.0	7.7	9.1	6.8	33.7
JULY-SEPTEMBER . . . . .	27.1	10.8	7.7	9.2	6.9	32.9
OCTOBER-DECEMBER . . . . .	31.9	12.1	8.6	10.0	7.2	35.5
WAGES . . . . . MILLION DOLLARS	417.0	119.6	93.9	97.4	92.6	456.6
COST OF MATERIALS, ETC., TOTAL . . . . .	923.2	152.9	111.6	149.2	144.4	1 423.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .	705.1	142.1	98.6	136.6	135.5	1 312.5
COST OF RESALES . . . . .	151.6	2.3	5.1	1.0	1.0	50.2
FUELS CONSUMED . . . . .	5.3	1.7	.7	.8	.9	7.0
PURCHASED ELECTRIC ENERGY . . . . .	22.2	5.1	2.7	2.8	3.0	17.9
CONTRACT WORK . . . . .	38.8	1.7	4.5	7.9	4.0	35.5
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . .	2 686.9	445.8	372.2	377.2	491.9	3 041.6
VALUE OF RESALES . . . . .	210.4	4.9	7.3	1.5	1.4	68.9
VALUE ADDED BY MANUFACTURE . . . . .	1 723.8	298.7	263.6	212.6	351.1	1 577.7
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL . . . . .	530.6	89.2	55.5	47.8	92.2	499.4
FINISHED PRODUCTS . . . . .	117.5	13.1	17.0	8.5	18.3	86.1
WORK IN PROCESS . . . . .	319.1	49.2	22.1	14.8	55.7	282.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	94.0	26.9	16.3	24.5	18.2	131.1
END OF YEAR, TOTAL . . . . .	497.1	99.6	62.7	59.2	98.7	481.2
FINISHED PRODUCTS . . . . .	109.8	13.9	17.8	7.3	20.3	91.5
WORK IN PROCESS . . . . .	287.2	54.1	24.3	24.2	57.4	233.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	100.1	31.6	20.6	27.7	21.0	156.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .	203.4	14.0	11.6	8.9	13.9	92.3
NEW PLANT AND EQUIPMENT, TOTAL . . . . .	170.3	13.3	10.4	8.7	12.5	85.2
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .	24.8	1.6	1.8	3.2	1.3	15.5
NEW MACHINERY AND EQUIPMENT . . . . .	145.5	11.9	8.6	5.5	11.2	69.8
USED PLANT AND EQUIPMENT . . . . .	33.1	.6	1.2	.2	1.4	7.1

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establish- ments	All employees		Production workers			Value added by manufac- ture	Cost of materials	Value of shipments	Capital expendi- tures, new	End-of- year inven- tories
		Number	Payroll	Number	Man-hours	Wages					
		(number)	(1,000)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3651-- RADIO AND TV RECEIVING SETS											
ESTABLISHMENTS, TOTAL . . . . .	372	86.5	651.4	69.8	132.3	453.6	1 807.9	2 715.4	4 440.1	58.6	664.8
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E8	115	.2	1.4	.2	.3	.9	2.9	4.8	8.4	.1	1.4
5 TO 9 EMPLOYEES . . . . . E9	53	.3	2.4	.3	.5	1.6	4.0	6.3	10.3	.2	1.8
10 TO 19 EMPLOYEES . . . . . E4	40	.6	4.1	.4	.8	2.4	7.8	9.4	17.1	.3	3.6
20 TO 49 EMPLOYEES . . . . . E2	54	1.7	11.1	1.3	2.4	6.8	24.7	32.2	55.8	1.4	11.0
50 TO 99 EMPLOYEES . . . . . E2	27	1.8	12.7	1.4	2.7	7.6	28.0	29.4	56.4	2.0	9.2
100 TO 249 EMPLOYEES . . . . .	28	4.6	27.6	3.4	6.4	16.7	79.2	87.1	160.0	2.6	35.8
250 TO 499 EMPLOYEES . . . . .	20	7.1	45.7	4.5	8.2	25.8	106.5	183.0	278.9	1.6	77.4
500 TO 999 EMPLOYEES . . . . .	17	11.8	78.6	8.7	17.0	49.6	161.4	232.2	397.4	5.1	99.6
1,000 TO 2,499 EMPLOYEES . . . . .	9	13.5	109.9	10.7	22.2	75.0	246.8	354.8	597.9	12.7	98.3
2,500 EMPLOYEES OR MORE . . . . .	9	44.9	357.7	38.8	71.9	267.2	1 146.4	1 776.2	2 858.0	32.5	326.7
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	131	.6	3.8	.5	.8	2.5	7.6	11.6	19.1	.2	3.3

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3652-- PHONO, RECORDS, PRERECORDED TAPE											
ESTABLISHMENTS, TOTAL, . . . . . E1	567	20.3	146.5	15.9	30.8	100.0	375.6	191.5	567.7	16.9	67.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	302	.5	3.5	.5	.8	2.3	12.0	7.3	20.0	1.0	2.9
5 TO 9 EMPLOYEES . . . . . E8	92	.6	4.0	.5	.9	2.7	11.3	6.6	17.9	1.0	2.6
10 TO 19 EMPLOYEES . . . . . E4	54	.7	5.8	.5	1.1	3.3	13.4	8.7	21.9	1.1	2.6
20 TO 49 EMPLOYEES . . . . . E1	54	1.7	11.7	1.3	2.3	7.1	41.7	18.2	59.2	2.5	3.5
50 TO 99 EMPLOYEES . . . . .	26	1.7	11.3	1.3	2.4	6.9	31.0	15.9	46.1	2.1	3.8
100 TO 249 EMPLOYEES . . . . . E1	22	3.4	23.1	2.7	5.1	15.4	43.0	33.7	77.8	1.7	9.2
250 TO 499 EMPLOYEES . . . . .	11	3.9	27.8	3.1	6.4	21.2	68.0	29.3	96.8	1.3	13.9
500 TO 999 EMPLOYEES . . . . .	3	7.7	59.4	6.0	12.0	41.1	155.0	71.9	227.9	6.1	29.0
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE, . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	245	.7	4.7	.7	1.2	3.3	14.5	8.8	23.3	1.2	3.6
3661-- TELEPHONE AND TELEGRAPH APPARATUS											
ESTABLISHMENTS, TOTAL, . . . . .	203	134.5	1 323.0	94.7	176.4	821.9	2 650.0	1 970.2	4 524.7	169.2	856.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	45	.1	.6	.1	.1	.4	1.4	1.1	2.5	.1	.5
5 TO 9 EMPLOYEES . . . . . E7	26	.2	1.3	.1	.2	.7	2.4	1.8	4.3	.2	1.0
10 TO 19 EMPLOYEES . . . . . E2	22	.3	3.1	.2	.4	1.6	6.9	6.2	12.7	.5	2.5
20 TO 49 EMPLOYEES . . . . .	25	.8	7.2	.6	.9	3.4	20.5	14.3	33.4	.9	6.2
50 TO 99 EMPLOYEES . . . . .	22	1.5	9.4	1.1	1.9	5.5	17.3	18.6	35.6	.7	8.2
100 TO 249 EMPLOYEES . . . . .	14	2.0	18.3	1.3	2.3	9.5	43.1	33.0	73.0	3.2	16.2
250 TO 499 EMPLOYEES . . . . .	12	4.0	34.8	2.5	4.8	17.1	63.4	114.7	162.4	2.7	80.1
500 TO 999 EMPLOYEES . . . . .	11	125.4	1 248.5	88.9	165.7	783.7	2 495.1	1 780.7	4 201.0	161.0	741.4
1,000 TO 2,499 EMPLOYEES . . . . .	10	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE, . . . . .	17	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	42	.2	1.4	.1	.2	.9	5.2	4.1	9.4	.2	1.8
3662-- RADIO AND TV COMMUNICATION EQUIP.											
ESTABLISHMENTS, TOTAL, . . . . .	1 772	319.1	3 588.5	161.8	320.6	1 446.7	5 799.3	3 336.9	9 133.8	212.2	2 077.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	443	.8	7.6	.5	.8	3.1	14.6	8.9	25.0	.8	5.6
5 TO 9 EMPLOYEES . . . . . E5	195	1.3	12.1	.7	1.4	5.1	24.5	13.4	38.2	1.5	7.9
10 TO 19 EMPLOYEES . . . . . E1	214	3.0	28.4	1.7	3.3	12.0	51.3	32.7	84.6	2.7	17.0
20 TO 49 EMPLOYEES . . . . . E1	329	10.5	93.5	6.3	12.0	43.5	171.3	102.0	267.5	8.1	58.3
50 TO 99 EMPLOYEES . . . . .	198	13.8	125.1	8.5	16.5	60.4	228.5	153.5	370.2	17.5	101.4
100 TO 249 EMPLOYEES . . . . .	180	28.3	250.4	17.8	35.2	128.2	477.2	269.9	725.5	17.2	197.5
250 TO 499 EMPLOYEES . . . . .	90	32.5	300.6	19.2	37.3	137.0	539.2	382.0	891.0	39.4	265.8
500 TO 999 EMPLOYEES . . . . .	45	32.0	346.6	15.3	30.6	131.1	598.7	334.8	918.2	16.7	243.8
1,000 TO 2,499 EMPLOYEES . . . . .	48	70.4	837.0	37.6	73.3	384.8	1 283.3	733.0	2 030.9	38.5	428.6
2,500 EMPLOYEES OR MORE, . . . . .	30	126.7	1 587.1	54.1	110.2	541.4	2 410.6	1 306.7	3 782.7	69.9	751.8
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	391	1.2	11.7	.6	1.1	4.4	22.4	12.1	34.5	1.0	8.5
3671-- ELECTRON TUBES, RECEIVING TYPE											
ESTABLISHMENTS, TOTAL, . . . . .	25	11.4	87.7	9.5	18.2	63.7	173.8	56.8	230.4	1.8	23.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E0	6	(Z)	.1	(Z)	(Z)	.1	.4	.1	.5	(Z)	.1
5 TO 9 EMPLOYEES . . . . . E0	3	(Z)	.1	(Z)	(Z)	.1	.2	.1	.3	(Z)	(Z)
10 TO 19 EMPLOYEES . . . . . E0	3	(Z)	.3	(Z)	.1	.2	.6	.2	.8	(Z)	.1
20 TO 49 EMPLOYEES . . . . .	1	.1	1.0	.1	.3	.9	1.4	.9	2.5	(Z)	.3
50 TO 99 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
100 TO 249 EMPLOYEES . . . . .	1	.9	5.8	.8	1.5	4.8	7.8	.3	8.1	(0)	.4
250 TO 499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	4	10.3	80.3	8.5	16.1	57.6	163.4	55.1	218.1	1.8	23.1
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE, . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	9	(Z)	.2	(Z)	.1	.2	.6	.2	.8	(Z)	.1
3672-- CATHODE RAY TV PICTURE TUBES											
ESTABLISHMENTS, TOTAL, . . . . .	75	15.1	146.9	12.2	24.3	97.3	345.5	359.1	696.5	26.2	66.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	38	.1	.6	.1	.1	.3	1.0	1.0	1.9	.1	.3
5 TO 9 EMPLOYEES . . . . . E8	10	.1	.5	(Z)	.1	.3	.8	.8	1.6	(Z)	.2
10 TO 19 EMPLOYEES . . . . . E4	6	.1	.5	.1	.1	.3	1.0	.8	1.8	.1	.2
20 TO 49 EMPLOYEES . . . . . E2	4	.2	1.2	.1	.2	.8	2.5	1.9	4.4	(Z)	.6
50 TO 99 EMPLOYEES . . . . .	5	.3	2.2	.2	.4	1.1	3.8	8.0	11.8	2.6	1.1
100 TO 249 EMPLOYEES . . . . .	3	11.4	23.9	2.0	3.9	14.6	57.4	52.7	110.4	(0)	8.8
250 TO 499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES . . . . .	4	12.2	118.1	9.8	19.6	79.8	279.1	293.7	564.6	23.4	55.1
2,500 EMPLOYEES OR MORE, . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	37	.1	.9	.1	.2	.5	1.4	1.5	2.9	.1	.4

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3673-- ELECTRON TUBES, TRANSMITTING											
ESTABLISHMENTS, TOTAL, . . . . .	53	20.5	233.8	12.3	25.3	115.8	342.8	138.0	479.3	13.5	102.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E0	7	(Z)	.1	(Z)	(Z)	(Z)	.1	.1	.2	(Z)	(Z)
5 TO 9 EMPLOYEES . . . . . E0	4	(Z)	.2	(Z)	(Z)	.1	.4	.2	.6	.2	.1
10 TO 19 EMPLOYEES . . . . . E1	4	.1	.5	.1	.1	.3	1.6	.5	2.0	(0)	.3
20 TO 49 EMPLOYEES . . . . . E2	5	.1	1.0	.1	.2	.6	2.0	.7	2.6	.1	.5
50 TO 99 EMPLOYEES . . . . . E2	8	.6	6.3	.5	.9	3.7	11.4	3.6	15.7	.4	4.3
100 TO 249 EMPLOYEES . . . . .	4	.6	6.8	.4	.9	3.3	13.8	4.9	18.9	.6	3.4
250 TO 499 EMPLOYEES . . . . .	9	3.0	28.9	2.2	4.2	18.6	54.7	30.0	84.0	1.1	16.2
500 TO 999 EMPLOYEES . . . . .	7	4.6	54.9	3.5	7.2	36.7	94.6	35.7	130.6	4.7	29.9
1,000 TO 2,499 EMPLOYEES . . . . .	3	11.1	135.1	5.6	11.8	52.3	164.3	62.3	224.7	6.3	48.0
2,500 EMPLOYEES OR MORE, . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> , . . . . .	11	.1	.6	(Z)	.1	.3	1.1	.4	1.5	(Z)	.3
3674-- SEMICONDUCTORS, RELATED DEVICES											
ESTABLISHMENTS, TOTAL, . . . . .	325	97.0	946.8	58.1	115.6	417.0	1 723.8	923.2	2 686.9	170.3	497.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	59	.1	.9	.1	.2	.4	1.8	.8	2.5	.2	.5
5 TO 9 EMPLOYEES . . . . . E8	40	.3	2.0	.2	.3	1.1	4.0	1.8	5.9	.4	1.1
10 TO 19 EMPLOYEES . . . . . E2	30	.4	3.3	.3	.5	1.7	5.6	3.4	9.5	1.2	1.5
20 TO 49 EMPLOYEES . . . . .	52	1.6	13.9	1.1	2.1	7.5	25.7	13.4	37.5	1.9	7.2
50 TO 99 EMPLOYEES . . . . . E1	44	3.3	26.8	2.3	4.4	13.3	48.8	27.6	74.3	5.1	14.1
100 TO 249 EMPLOYEES . . . . . E1	42	6.3	51.4	4.4	8.0	23.8	101.0	70.9	166.4	11.3	41.8
250 TO 499 EMPLOYEES . . . . .	23	7.8	68.3	5.3	10.5	36.3	145.9	78.7	221.5	12.0	43.6
500 TO 999 EMPLOYEES . . . . .	17	12.1	99.9	8.3	16.7	54.4	186.8	97.6	279.4	10.8	58.8
1,000 TO 2,499 EMPLOYEES . . . . .	9	14.7	139.5	9.5	19.0	68.1	284.7	135.1	409.7	30.8	58.7
2,500 EMPLOYEES OR MORE, . . . . .	9	50.3	540.9	26.7	53.9	210.2	919.4	493.8	1 480.4	96.7	269.8
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> , . . . . .	75	.3	2.4	.2	.4	1.2	5.3	2.3	7.7	.6	1.4
3675-- ELECTRONIC CAPACITORS											
ESTABLISHMENTS, TOTAL, . . . . .	113	27.7	169.2	22.5	44.6	119.6	298.7	152.9	445.8	13.3	99.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	2	(Z)	.2	(Z)	(Z)	.2	.4	.2	.7	(Z)	.1
5 TO 9 EMPLOYEES . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	6	.1	.7	.1	.1	.3	2.0	1.9	4.0	(Z)	.4
20 TO 49 EMPLOYEES . . . . .	16	.5	3.2	.4	.8	2.1	5.8	3.4	9.2	.2	1.3
50 TO 99 EMPLOYEES . . . . .	22	1.5	9.5	1.1	2.1	5.6	14.2	8.9	23.6	.5	3.7
100 TO 249 EMPLOYEES . . . . .	27	4.4	28.7	3.5	6.8	19.1	58.7	24.5	83.4	2.7	13.2
250 TO 499 EMPLOYEES . . . . .	16	5.7	34.8	4.8	9.5	26.0	60.2	30.4	87.0	2.5	21.4
500 TO 999 EMPLOYEES . . . . .	17	11.7	70.5	9.6	19.2	51.9	120.9	68.3	187.9	7.4	46.4
1,000 TO 2,499 EMPLOYEES . . . . .	3	3.7	21.5	3.0	6.0	14.4	36.5	15.1	50.1	(0)	13.0
3676-- ELECTRONIC RESISTORS											
ESTABLISHMENTS, TOTAL, . . . . .	86	20.5	144.4	15.7	31.3	93.9	263.6	111.6	372.2	10.4	62.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
5 TO 9 EMPLOYEES . . . . .	3	.1	.6	(Z)	.2	.3	1.5	.9	2.4	.2	.3
10 TO 19 EMPLOYEES . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES . . . . .	13	1.5	9.5	1.2	2.3	5.7	16.7	6.9	23.3	.4	4.5
50 TO 99 EMPLOYEES . . . . .	16	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
100 TO 249 EMPLOYEES . . . . .	23	3.6	22.5	2.8	5.3	14.2	41.6	18.2	59.3	1.0	8.9
250 TO 499 EMPLOYEES . . . . .	16	6.5	46.6	5.0	10.6	31.2	83.6	32.3	115.4	4.0	23.3
500 TO 999 EMPLOYEES . . . . .	8	8.9	65.2	6.6	13.1	42.5	120.1	53.2	171.8	4.8	25.7
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3677-- ELECTRONIC COILS AND TRANSFORMERS											
ESTABLISHMENTS, TOTAL, . . . . .	246	23.6	141.7	19.1	37.0	97.4	212.6	149.2	353.5	8.7	59.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	9	(Z)	.1	(Z)	(Z)	.1	.2	.1	.2	(Z)	(Z)
5 TO 9 EMPLOYEES . . . . .	8	.1	.4	(Z)	.1	.1	.8	.7	1.4	.1	.1
10 TO 19 EMPLOYEES . . . . .	25	.4	2.3	.3	.5	1.3	4.1	2.4	6.6	.1	.5
20 TO 49 EMPLOYEES . . . . .	74	2.4	13.7	2.0	3.7	9.2	22.4	16.9	39.2	1.0	6.0
50 TO 99 EMPLOYEES . . . . .	55	3.9	23.0	3.2	6.1	15.5	36.4	21.4	57.2	.8	6.6
100 TO 249 EMPLOYEES . . . . .	55	8.7	47.1	7.5	14.0	33.7	78.0	57.0	133.8	3.5	21.4
250 TO 499 EMPLOYEES . . . . .	16	4.8	28.1	3.8	7.2	18.5	46.1	30.3	73.9	.7	13.9
500 TO 999 EMPLOYEES . . . . .	3	3.3	27.1	2.5	5.4	19.0	24.7	20.4	41.0	2.5	10.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3678-- ELECTRONIC CONNECTORS											
ESTABLISHMENTS, TOTAL, . . . . .	92	18.5	144.6	12.8	27.5	92.6	351.1	144.4	491.9	12.5	98.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	3	(Z)	.1	(Z)	(Z)	(Z)	.2	.2	.4	(Z)	.4
5 TO 9 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	7	.1	.9	.1	.2	.5	1.6	1.5	3.2	.2	.3
20 TO 49 EMPLOYEES . . . . .	22	.8	5.8	.6	1.1	3.3	11.9	6.9	18.5	.7	3.2
50 TO 99 EMPLOYEES . . . . .	16	1.2	8.4	.9	1.8	5.2	17.7	11.1	28.6	.4	3.6
100 TO 249 EMPLOYEES . . . . .	19	2.9	21.0	2.2	4.4	13.5	55.3	19.5	72.7	2.5	15.2
250 TO 499 EMPLOYEES . . . . .	15	4.9	34.8	3.8	7.7	24.9	116.7	51.9	164.4	4.3	33.4
500 TO 999 EMPLOYEES . . . . .	5	8.8	73.6	6.3	12.4	45.3	147.5	53.1	204.2	4.5	42.8
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE, . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3679-- ELECTRONIC COMPONENTS, NEC											
ESTABLISHMENTS, TOTAL . . . . .	1 840	100.7	844.6	69.9	135.8	456.6	1 577.7	1 423.0	3 041.6	85.2	481.2
ESTABLISHMENTS WITH AN AVERAGE OF—											
1 TO 4 EMPLOYEES . . . . . E9	625	1.1	8.6	1.0	1.5	4.6	18.3	14.9	33.2	2.5	6.7
5 TO 9 EMPLOYEES . . . . . E7	284	1.9	14.8	1.3	2.6	8.0	25.0	19.1	44.3	2.5	8.3
10 TO 19 EMPLOYEES . . . . . E4	235	3.3	24.9	2.3	4.5	14.1	42.9	29.9	72.2	3.6	11.5
20 TO 49 EMPLOYEES . . . . . E2	316	10.1	73.5	7.5	13.8	42.9	137.7	82.2	218.2	9.2	33.8
50 TO 99 EMPLOYEES . . . . . E1	166	11.8	87.1	8.8	17.4	51.3	160.4	110.4	267.4	10.8	42.9
100 TO 249 EMPLOYEES . . . . .	139	21.6	172.1	15.7	31.0	97.2	322.4	187.5	505.5	20.8	81.6
250 TO 499 EMPLOYEES . . . . .	49	16.9	135.4	12.3	23.6	78.5	257.4	149.0	398.1	9.7	80.9
500 TO 999 EMPLOYEES . . . . .	17	12.1	106.1	8.4	16.3	56.7	204.0	169.9	369.1	9.7	85.0
1,000 TO 2,499 EMPLOYEES . . . . .	7	21.3	222.1	12.5	25.0	103.1	409.7	660.1	1 163.2	16.4	130.6
2,500 EMPLOYEES OR MORE . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY AQHN, RECORD <sup>1</sup>	677	2.6	18.8	1.9	3.5	9.7	32.8	27.4	60.2	3.5	12.6

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underacred figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3651	RA010 AND TV RECEIVING SETS										
	ENTIRE INDUSTRY . . . . .	372	86.5	651.4	69.8	132.3	453.6	1 807.9	2 715.4	4 440.1	58.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	353	78.7	589.6	64.0	121.2	414.5	1 679.1	2 597.7	4 198.0	52.5
36511	HOUSEHOLD, AUTOMOBILE RADIO, RADIO-PHONOGRAPHS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	25	22.2	194.8	17.3	32.9	137.0	392.6	413.7	780.7	15.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	19	14.3	139.1	11.0	20.6	98.0	320.7	261.2	557.1	(0)
36512	HOUSEHOLD TV RECEIVERS AND TV COMBINATIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	41.7	301.2	35.3	66.4	214.6	1 053.7	1 959.4	2 972.1	23.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	13	36.2	263.9	30.9	57.7	189.8	862.9	1 696.4	2 544.0	18.1
36514	RECORDERS, PHONOGRAPHS, AND RADIO AND TV CASSIS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	49	9.2	68.3	6.9	13.7	46.8	165.1	183.1	339.9	11.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	42	7.5	58.0	5.9	12.1	40.7	137.6	157.4	289.0	9.9
36515	SPEAKER SYST., ELECTRONIC KITS, SOUND EQUIP, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	67	10.2	65.0	7.7	14.5	40.6	150.5	115.6	258.9	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	53	6.8	38.8	5.3	9.9	25.6	75.7	66.7	139.8	3.6
3652	PHONO, RECORDS, PRERECORDED TAPE										
	ENTIRE INDUSTRY . . . . .	567	20.3	146.5	15.9	30.8	100.0	375.6	191.5	567.7	16.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	558	19.9	143.3	15.6	30.3	98.6	368.0	187.8	556.8	16.7
3661	TELEPHONE AND TELEGRAPH APPARATUS										
	ENTIRE INDUSTRY . . . . .	203	134.5	1 323.0	94.7	176.4	821.9	2 650.0	1 970.0	4 524.7	169.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	191	125.8	1 233.1	88.8	164.9	768.8	2 443.0	1 842.8	4 191.9	155.8
36611	TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	29	69.4	675.9	48.2	87.6	424.2	1 327.1	883.7	2 164.5	67.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	25	39.5	367.1	27.1	50.8	218.5	746.0	516.4	2 224.9	42.6
36612	OTHER TELEPHONE, TELEGRAPH (WIRE) APPARATUS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	86	63.9	638.0	45.7	87.4	392.2	1 304.6	1 074.6	2 331.0	101.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	72	51.4	514.2	37.1	70.5	320.0	1 046.6	855.6	1 865.8	77.3

See footnote at end of table.



TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3662	RADIO AND TV COMMUNICATION EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	1 772	319.1	3 588.5	161.8	320.6	1 446.7	5 799.3	3 336.9	9 133.8	212.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	1 594	276.7	3 156.7	138.4	275.0	1 248.7	5 194.0	2 959.2	8 179.5	195.0
36621	COMM. INDUS., MIL. COMMUN. EQUIP. EXC. PHONE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	278	65.9	646.9	33.1	66.9	240.1	1 146.2	669.2	1 822.8	50.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	201	35.8	328.9	20.1	40.6	140.6	697.1	332.3	1 013.9	38.8
36622	RADIO, TV BROADCAST EQUIP.; CLOSED CIRCUIT SYSTEM (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	99	18.5	186.0	10.8	21.0	93.8	309.2	253.5	546.6	20.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	81	10.6	95.7	6.1	12.2	45.8	183.4	161.5	333.3	16.1
36623	INTERCOM. EQUIPMENT, ELECTRIC ALARM SYSTEMS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	137	11.5	100.0	6.4	12.1	42.9	193.4	143.6	324.6	17.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	111	9.2	81.9	4.9	9.0	32.7	158.4	121.4	269.8	15.5
36624	ELECTRONIC NAVIG. AIDS (EXC. SPACE VEHICLE BORNE) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	69	47.2	636.9	22.3	44.7	234.3	977.2	506.3	1 512.2	30.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	28	17.7	234.3	8.0	15.9	83.7	387.4	157.3	539.4	7.3
36625	ELECTRONIC DETECTION APPARATUS, RADAR, SONAR, ETC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	119	97.8	1 168.2	47.7	94.7	468.8	1 837.5	1 023.3	2 886.5	51.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	75	51.3	620.3	25.8	50.6	271.5	987.6	524.7	1 562.0	26.2
36626	ELECTRONIC MILITARY, INDUS., COM. EQUIP., NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	326	47.1	504.5	24.7	47.8	208.1	821.3	463.0	1 275.9	23.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	257	28.4	297.1	13.7	27.0	97.9	499.4	322.4	780.0	15.7
36627	SPACE SATELLITE-BORNE COMMUNICATIONS EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36628	MISSILE-BORNE NAVIGATION, GUIDANCE SYSTEMS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	24	18.4	227.4	9.8	19.8	106.8	305.7	134.9	421.3	9.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	6.5	77.5	3.8	8.2	39.9	113.6	50.6	157.5	4.5
36629	MICROWAVE AND MOBILE TELEPHONE COMMUN. EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	29	1.7	16.8	1.1	2.3	8.9	35.5	24.2	57.4	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	23	1.3	13.0	.8	1.7	6.5	27.5	20.0	45.4	1.8
3671	ELECTRON TUBES, RECEIVING TYPE										
	ENTIRE INDUSTRY . . . . .	25	11.4	87.7	9.5	18.2	63.7	173.8	56.8	230.4	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	21	7.1	54.2	5.8	10.6	38.3	126.3	32.7	159.1	1.2
3672	CATHODE RAY TV PICTURE TUBES										
	ENTIRE INDUSTRY . . . . .	75	15.1	146.9	12.2	24.3	97.3	345.5	359.1	696.5	26.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	74	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3673	ELECTRON TUBES, TRANSMITTING										
	ENTIRE INDUSTRY . . . . .	53	20.5	233.8	12.3	25.3	115.8	342.8	138.0	479.3	13.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	38	11.1	117.5	5.9	13.0	55.3	149.6	71.3	220.7	5.3
3674	SEMICONDUCTORS AND RELATED DEVICES										
	ENTIRE INDUSTRY . . . . .	325	97.0	946.8	58.1	115.6	417.0	1 723.8	923.2	2 686.9	170.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	306	88.8	854.5	53.0	106.0	374.7	1 517.4	851.4	2 405.6	136.9
36741	INTEGRATED MICROCIRCUITS (SEMICONDUCTOR NETWORKS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	75	77.8	581.5	30.5	63.2	234.6	1 060.5	581.7	1 706.7	105.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	63	33.6	363.9	16.2	32.6	116.7	654.4	456.5	1 176.4	59.1
36742	TRANSISTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	22	20.6	190.4	12.5	23.5	85.2	314.7	138.0	440.2	33.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	10	3.3	23.4	2.7	4.9	16.4	49.5	14.2	64.6	2.8
36743	DIODES AND RECTIFIERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	47	13.1	110.9	9.3	18.2	64.2	237.1	128.0	357.0	19.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	34	6.3	47.9	4.7	9.4	27.7	123.2	57.1	177.1	6.5
36749	OTHER SEMICONDUCTOR DEVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	49	5.4	45.5	3.9	7.3	23.0	85.4	60.4	141.8	8.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	38	3.8	31.1	2.8	5.3	16.1	57.9	41.1	97.1	7.4
3675	ELECTRONIC CAPACITORS										
	ENTIRE INDUSTRY . . . . .	113	27.7	169.2	22.5	44.6	119.6	298.7	152.9	445.8	13.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	99	24.2	146.1	19.6	38.8	103.3	253.8	133.8	380.3	11.8
3676	ELECTRONIC RESISTORS										
	ENTIRE INDUSTRY . . . . .	86	20.5	144.4	15.7	31.3	93.9	263.6	111.6	372.2	10.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	78	18.1	129.7	13.9	27.8	84.7	236.0	91.3	323.9	9.5
3677	ELECTRONIC COILS AND TRANSFORMERS										
	ENTIRE INDUSTRY . . . . .	246	23.6	141.7	19.1	37.0	97.4	212.6	149.2	353.5	8.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	219	19.4	115.5	15.8	30.3	80.4	165.5	122.4	279.8	7.4
3678	ELECTRONIC CONNECTORS										
	ENTIRE INDUSTRY . . . . .	92	18.5	144.6	12.8	27.5	92.6	351.1	144.4	491.9	12.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	83	15.9	122.4	10.9	23.9	78.0	291.0	118.9	407.0	10.9
3679	ELECTRONIC COMPONENTS, NEC										
	ENTIRE INDUSTRY . . . . .	1 840	100.2	844.6	69.9	135.8	456.6	1 577.7	1 423.0	3 041.6	85.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	1 698	68.7	550.4	48.5	93.0	295.7	1 035.6	602.6	1 623.6	78.1

(D) Withheld to avoid disclosing figures for individual companies.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipmant values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Covarega ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3651	Radio and TV receiving sets.....1972..	4,440.1	3,560.2	168.5	711.4	95	3,609.7	3,560.2	49.5	99
	.....1967..	3,846.3	3,517.8	213.8	114.7	94	3,568.2	3,517.8	50.4	99
3652	Phonograph records and prerecorded magnetic tape.....1972..	567.7	533.4	10.8	23.5	98	537.3	533.4	3.9	99
	.....1967..	276.4	267.8	1.4	7.2	99	271.0	267.8	3.2	96
3661	Telephone and telegraph apparatus.....1972..	4,497.7	3,922.3	334.5	240.9	91	3,973.9	3,922.3	51.6	99
	.....1967..	2,591.2	2,164.9	298.0	128.3	88	2,248.2	2,164.9	83.3	96
3662	Radio and TV communication equipment.....1972..	9,133.8	7,610.0	761.6	762.2	91	8,376.6	7,610.0	766.6	91
	.....1967..	8,555.8	6,706.4	834.2	1,015.2	89	7,482.2	6,706.4	775.8	90
3671	Electron tubes, receiving type.....1972..	230.4	178.9	36.8	14.7	83	189.6	178.9	10.7	94
	.....1967..	300.6	238.1	41.0	21.5	85	253.1	238.1	15.1	94
3672	Cathode-ray television picture tubes.....1972..	696.5	618.3	58.4	19.8	91	633.6	618.3	15.3	98
	.....1967..	832.3	752.1	64.7	15.5	92	765.6	752.1	13.5	98
3673	Electron tubes, transmitting.....1972..	479.3	306.8	139.4	33.1	69	366.2	306.8	59.4	84
	.....1967..	369.4	260.6	67.4	41.4	79	361.6	260.6	101.0	72
3674	Semiconductors and related devices.....1972..	2,686.9	2,163.3	261.3	262.3	89	2,360.8	2,163.3	197.5	92
	.....1967..	1,141.0	1,014.8	87.6	38.6	92	1,162.0	1,014.8	147.2	92
3675	Electronic capacitors <sup>1</sup> .....1972..	445.8	396.1	42.5	7.2	90	454.4	396.1	58.3	87
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3676	Electronic resistors <sup>1</sup> .....1972..	372.2	323.6	36.0	12.6	90	438.1	323.6	114.5	74
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3677	Electronic coils and transformers <sup>1</sup> .....1972..	353.5	303.8	46.9	2.8	87	385.3	303.8	81.5	79
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3678	Electronic connectors <sup>1</sup> .....1972..	491.9	422.2	61.4	8.3	87	523.6	422.2	101.4	81
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3679	Electronic components, n.e.c. (new SIC basis) <sup>1</sup> .....1972..	3,041.6	2,326.8	599.0	115.8	80	3,209.8	2,326.8	883.0	72
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3679	Electronic components, n.e.c. (old SIC basis) <sup>1</sup> .....1972..	4,705.0	3,772.5	785.8	146.7	82	5,011.2	3,772.5	1,238.7	75
	.....1967..	4,809.4	3,777.0	751.5	280.9	83	4,420.1	3,777.0	643.1	85

(NA) Not available.

<sup>1</sup>Industries 3675, 3676, 3677, and 3678 are published as separate industries for the first time in 1972. These four industries plus industry 3679 (new SIC basis) are equivalent to industry 3679 as tabulated on the old SIC basis.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Radio and TV receiving sets (SIC 3651)	Phonograph records and prerecorded magnetic tapes (SIC 3652)	Telephone and telegraph apparatus (SIC 3661)	Radio and TV communication equipment (SIC 3662)	Electron tubes, receiving type (SIC 3671)	Cathode ray television picture tubes (SIC 3672)	Electron tubes, transmitting (SIC 3673)	Semi-conductors and related devices (SIC 3674)	Electronic capacitors (SIC 3675)	Electronic resistors (SIC 3676)	Electronic coils and transformers (SIC 3677)	Electronic connectors (SIC 3678)	Electronic components, n.e.c. (SIC 3679)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	4,440.1	567.7	4,497.7	9,133.8	230.4	696.5	479.3	2,686.9	445.8	372.2	353.5	491.9	3,041.6	(X)
3651	Radio and TV receiving sets.....	3,609.7	3,560.2	-	-	14.0	-	-	-	(under 2)	(under 2)	(under 2)	(under 2)	-	(over 2)	(over 2)
36511	Household and automobile radios and radio-phonographs.....	754.5	742.3	-	-	(under 2)	-	-	-	(under 2)	-	-	-	-	(over 2)	(over 2)
36512	Household TV receivers and TV combinations.....	2,148.7	2,148.1	-	-	-	-	-	-	-	-	-	-	-	-	.6
36514	Recorders, phonographs, and radio and TV chassis.....	373.4	354.0	-	-	(under 2)	-	-	-	-	-	-	-	-	(over 2)	(over 2)
36515	Speaker systems electronic kits and sound equipment, etc.....	249.2	231.9	-	-	(10-20)	-	-	-	-	-	(under 2)	(under 2)	-	(over 2)	(2-5)
36510	Radio and TV receiving sets, n.s.k.....	83.9	83.9	-	-	-	-	-	-	-	-	-	-	-	-	-
36520	Phonograph records, blanks and prerecorded tapes.....	537.3	-	533.4	-	(under 2)	-	-	-	-	-	-	-	-	-	(over 2)
3661	Telephone and telegraph apparatus.....	3,973.9	(under 2)	-	3,922.3	10.8	-	-	(under 2)	-	-	-	(under 2)	-	-	(20-50)
36611	Telephone switching and switch-board equipment.....	1,568.1	-	-	1,564.1	2.4	-	-	-	-	-	-	-	-	-	1.6
36612	Other telephone and telegraph (wire) apparatus.....	2,376.6	(under 2)	-	2,329.0	8.4	-	-	(under 2)	-	-	-	(under 2)	-	-	35.5
36610	Telephone and telegraph apparatus, n.s.k.....	29.2	-	-	29.2	-	-	-	-	-	-	-	-	-	-	-
3662	Radio and TV communication equipment.....	8,376.6	39.5	-	100.9	7,610.0	-	(over 2)	34.2	14.3	.8	(under 2)	7.6	(under 2)	41.7	522.1
36621	Commercial, industrial, and military communication equipment, except telephone.....	1,554.8	5.1	-	45.1	1,419.0	-	-	3.5	(under 2)	(under 2)	(under 2)	(under 2)	(under 2)	5.3	199.4
36622	Radio and TV broadcast equipment and closed circuit systems.....	429.7	10.2	-	-	394.1	-	(over 2)	(over 2)	(under 2)	-	-	(over 2)	-	(over 2)	7.7
36623	Intercommunication equipment and electric alarm systems.....	332.8	(under 2)	-	(under 2)	283.1	-	-	(under 2)	(over 2)	-	-	(under 2)	-	(under 2)	40.3
36624	Electronic navigational aids (except space vehicle-borne).....	1,073.9	-	-	-	1,046.4	-	-	-	-	-	-	(under 2)	-	(under 2)	27.4
36625	Electronic detection apparatus, radar, sonar, etc.....	2,262.9	(over 2)	-	(over 2)	2,191.9	-	-	(under 2)	(under 2)	-	-	(under 2)	-	9.3	45.0
36626	Electronic military, industrial and commercial equipment, n.e.c.....	1,459.0	(over 2)	-	(under 2)	1,258.6	-	-	24.7	(over 2)	(under 2)	-	(under 2)	(under 2)	22.1	129.3
36627	Space satellite-borne communications equipment.....	124.7	-	-	-	(1)	-	-	-	-	-	-	-	-	(1)	(1)
36628	Missile-borne navigation, guidance systems.....	778.3	-	-	-	709.5	-	-	-	-	-	-	-	-	(under 2)	(50-100)
36629	Microwave and mobile telephone communication equipment.....	148.3	-	-	(20-50)	97.8	-	-	-	(over 2)	(under 2)	-	(under 2)	-	-	4.1
36620	Communication equipment, n.s.k.....	207.2	-	-	-	204.1	-	-	-	(under 2)	-	-	(under 2)	-	-	2.3
36710	Receiving-type electron tubes, except cathode ray.....	189.6	-	-	(over 2)	(under 2)	178.9	-	(under 2)	(under 2)	-	-	-	-	(over 2)	1.0
36720	Cathode ray picture tubes, including rebuilt.....	633.6	(over 2)	-	-	(under 2)	(over 2)	618.3	(over 2)	-	-	-	-	-	-	-
36730	Transmittal, special electron tubes, except X-ray.....	366.2	-	-	(over 2)	(5-10)	(over 2)	(over 2)	306.8	(over 2)	-	-	-	-	(under 2)	4.0

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

Product code	Industry, class of products, and miscellaneous receipts	All industries	Radio and TV receiving sets (SIC 3651)	Phonograph records and prerecorded magnetic tapes (SIC 3652)	Telephone and telegraph apparatus (SIC 3661)	Radio and TV communication equipment (SIC 3662)	Electron tubes, receiving type (SIC 3671)	Cathode ray television picture tubes (SIC 3672)	Electron tubes, transmitting (SIC 3673)	Semi-conductors and related devices (SIC 3674)	Electronic capacitors (SIC 3675)	Electronic resistors (SIC 3676)	Electronic coils and transformers (SIC 3677)	Electronic connectors (SIC 3678)	Electronic components, n.e.c. (SIC 3679)	Other industries
3674	Shipments and miscellaneous receipts—Continued	2,360.8	(over 2)	-	(over 2)	11.6	(over 2)	-	28.2	2,163.3	8.9	(under 2)	(under 2)	(under 2)	(50-100)	15.6
36741	Semiconductors and related devices..	1,267.8	(over 2)	-	(over 2)	(2-5)	(over 2)	-	(over 2)	1,185.3	(under 2)	(under 2)	-	-	(50-100)	4.4
36742	Integrated microcircuits (semiconductor networks).....	413.6	(over 2)	-	(over 2)	(2-5)	(over 2)	-	-	375.9	(over 2)	(under 2)	-	-	(2-5)	7.0
36743	Transistors.....	300.8	(over 2)	-	(over 2)	.6	(under 2)	-	(under 2)	272.3	(under 2)	(under 2)	-	-	(5-10)	2.1
36749	Diodes and rectifiers.....	337.2	(under 2)	-	(under 2)	3.6	(under 2)	-	(over 2)	298.7	(under 2)	(under 2)	-	-	-	1.3
36740	Other semiconductor devices.....	41.4	-	-	-	-	-	-	-	40.1	-	-	-	-	-	1.3
36750	Semiconductors and related devices, n.s.k.....	454.4	-	-	(over 2)	6.8	-	-	-	(5-10)	396.1	2.8	(over 2)	(under 2)	3.4	27.1
36760	Capacitors for electronic applications.....	438.1	-	-	-	(2-5)	-	-	-	9.3	3.8	323.6	(5-10)	-	10.1	82.0
36770	Electronic coils, transformers, reactors, and chokes.....	385.3	(under 2)	-	(over 2)	5.0	-	-	(over 2)	(under 2)	(under 2)	8.9	303.8	(under 2)	34.7	1.7
36780	Electronic connectors.....	523.6	(under 2)	-	(under 2)	(under 2)	-	-	-	(over 2)	(under 2)	2.3	(under 2)	422.2	16.7	76.7
36790	Electronic components, n.e.c.....	3,209.8	51.9	(under 2)	(over 2)	69.9	13.0	(over 2)	17.1	87.5	1.2	(over 2)	13.5	(2-5)	2,326.8	518.8
3356	Other product shipments by 4-digit product group:															
3357	Nonferrous rolling and drawing, n.e.c.....	(X)	-	-	(over 2)	-	-	-	-	-	-	-	-	-	-	(X)
3429	Nonferrous wiredrawing and insulating.....	(X)	(under 2)	-	-	(2-5)	-	-	-	-	-	-	-	(under 2)	(under 2)	(X)
3469	Hardware, n.e.c.....	(X)	-	-	(over 2)	(over 2)	-	-	-	-	-	-	-	-	-	(X)
3471	Metal stampings, n.e.c.....	(X)	-	-	(under 2)	(2-5)	-	-	-	-	(under 2)	-	-	-	.5	(X)
3483	Plating and polishing.....	(X)	-	-	-	-	-	-	-	-	-	-	-	-	(5-10)	(X)
3489	Ammunition, except for small arms, n.e.c.....	(X)	-	-	-	14.4	-	-	-	-	-	-	-	-	(under 2)	(X)
3499	Ordnance and accessories, n.e.c.....	(X)	-	-	(over 2)	7.5	-	-	-	-	-	-	-	-	-	(X)
3559	Fabricated metal products, n.e.c.....	(X)	(under 2)	-	-	1.6	-	-	-	-	-	-	-	(under 2)	1.2	(X)
3579	Special industry machinery, n.e.c.....	(X)	-	-	(over 2)	2.0	(under 2)	-	-	(over 2)	(under 2)	-	-	-	-	(X)
3573	Electronic computing equipment....	(X)	-	(under 2)	(under 2)	54.4	-	(over 2)	(5-10)	(over 2)	(under 2)	-	-	-	(over 2)	(X)
3574	Calculating and accounting machines.....	(X)	(over 2)	-	-	2.0	-	-	-	(10-20)	-	-	-	-	.4	(X)
3579	Office machines, n.e.c.....	(X)	(over 2)	-	-	(2-5)	-	-	-	-	-	-	-	-	(under 2)	(X)
3581	Automatic merchandising machines..	(X)	(over 2)	-	-	-	-	-	-	-	-	-	-	-	(under 2)	(X)
3612	Transformers.....	(X)	-	-	-	.4	-	-	-	-	(under 2)	-	6.0	-	.6	(X)
3613	Switchgear and switchboard apparatus.....	(X)	-	-	(2-5)	5.6	-	-	-	(over 2)	(2-5)	-	-	-	.6	(X)
3621	Motors and generators.....	(X)	(under 2)	-	-	(5-10)	-	-	-	(over 2)	-	(under 2)	-	(under 2)	4.0	(X)
3622	Industrial controls.....	(X)	(over 2)	-	11.1	9.0	-	-	(under 2)	(under 2)	-	(under 2)	-	-	.2	(X)
3623	Welding apparatus, electric.....	(X)	-	-	(10-20)	(under 2)	-	-	(over 2)	-	-	-	-	-	(under 2)	(X)
3643	Current-carrying wiring devices....	(X)	-	-	-	2.5	-	-	-	(under 2)	-	-	(under 2)	24.8	16.5	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	-	-	(over 2)	(under 2)	-	-	-	-	-	-	-	-	(over 2)	(X)
3693	X-ray apparatus and tubes.....	(X)	-	-	(under 2)	2.7	-	-	(10-20)	-	-	-	-	-	-	(X)
3694	Engine electrical equipment.....	(X)	(under 2)	-	(under 2)	(under 2)	-	-	-	-	-	-	-	(under 2)	(10-20)	(X)
3699	Electrical equipment and supplies, n.e.c.....	(X)	-	-	(under 2)	2.9	-	-	-	(under 2)	-	-	(under 2)	-	1.8	(X)
3714	Motor vehicle parts and accessories.....	(X)	(20-50)	-	-	(under 2)	-	-	-	-	-	-	-	-	-	(X)
3724	Aircraft engines and engine parts.	(X)	-	-	-	(5-10)	-	-	-	-	-	-	-	-	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	-	-	18.9	-	-	-	-	-	-	-	(under 2)	(over 2)	(X)
3761	Guided missiles and space vehicles.....	(X)	-	-	-	(20-50)	-	-	-	-	-	-	-	-	-	(X)
3764	Space propulsion units and parts....	(X)	-	-	-	(5-10)	-	-	-	-	-	-	-	-	-	(X)
3769	Space vehicle equipment, n.e.c.....	(X)	-	-	-	3.7	-	-	-	-	-	-	-	-	-	(X)
3795	Tanks and tank components.....	(X)	-	-	-	(5-10)	-	-	-	-	-	-	-	-	(under 2)	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

Product code	Industry, class of products, and miscellaneous receipts	All industries	Radio and TV receiving sets (SIC 3651)	Phonograph records and prerecorded magnetic tapes (SIC 3652)	Telephone and telegraph apparatus (SIC 3661)	Radio and TV communication equipment (SIC 3662)	Electron tubes, receiving type (SIC 3671)	Cathode ray television picture tubes (SIC 3672)	Electron tubes, transmitting (SIC 3673)	Semi-conductors and related devices (SIC 3674)	Electronic capacitors (SIC 3675)	Electronic resistors (SIC 3676)	Electronic coils and transformers (SIC 3677)	Electronic connectors (SIC 3678)	Electronic components, n.e.c. (SIC 3679)	Other industries
	Other product shipments by 4-digit product group--Continued															
3811	Engineering and scientific instruments.....	(X)													8.3	(X)
3822	Environmental controls.....	(X)	(2-5)			98.9 (under 2)				(under 2)						(X)
3823	Process control instruments.....	(X)				12.8			(over 2)						3.5	(X)
3825	Instruments to measure electricity.....	(X)				62.0			(2-5)	(under 2)			.1		11.2	(X)
3829	Measuring and controlling devices, n.e.c.....	(X)				13.0			(under 2)		(under 2)				1.0	(X)
3832	Optical instruments and lenses.....	(X)				36.4			(10-20)	(under 2)					(2-5)	(X)
3861	Photographic equipment and supplies.....	(X)				17.5 (2-5)									(under 2)	(X)
3873	Watches, clocks, and watchcases...	(X)													(2-5)	(X)
3944	Games, toys, and children's vehicles.....	(X)														(X)
3961	Costume jewelry.....	(X)	(over 2)													(X)
3999	Manufacturing industries, n.e.c....	(X)				(2-5)			(under 2)						(5-10)	(X)
	Miscellaneous receipts, total.....	(X)	711.4 (over 2)	23.5 2.7	240.9 (under 2) (over 2)	762.2 40.4 3.7	14.7 (over 2) (under 2)	19.8 (under 2) (under 2)	33.1 - (under 2)	262.3 (over 2) 10.9	7.2 (under 2) 1.3	12.6 (under 2)	2.8 .4 .3	8.3 (under 2) 3.1	115.8 21.6 7.9	(X) (X) (X)
9998001	Receipts for installation (or construction) of products.....	(X)	(under 2)		44.4	37.0	-	-	(under 2)	(under 2)	-	-	-	(under 2)	-	(X)
9998041	Receipts for research and development.....	(X)	(under 2)		(over 2)	163.7	(under 2)	-	4.5	12.2	(under 2)	-	(under 2)	(under 2)	7.2	(X)
9998061	Receipts for repair work.....	(X)	1.7		12.5	40.7	-	(under 2)	4.2	(under 2)	(under 2)	(over 2)	(under 2)	(under 2)	1.7	(X)
9998098	Other miscellaneous receipts.....	(X)	2.5	1.1	26.1	270.8	-	(under 2)	(over 2)	6.2	(under 2)	(over 2)	(under 2)	1.1	9.3	(X)
9998900	Resales.....	(X)	699.3	19.7	125.0	205.9 (over 2)	(over 2)	(15-20)	12.4	210.4	4.9	7.3	1.5	1.4	68.1	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries					
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued			Listing of other industries with over \$2 million shipments of primary products--Continued									
3651	Instruments to measure electricity.....	(2-5)	3662	Engineering and scientific instruments.....	15.5	3679	Paperboard mills.....	(over 2)								
3662	Nonferrous wire drawing and insulating.....	(over 2)	3823	Process control instruments.....	14.2	2641	Paper coating and glazing.....	(over 2)								
3442	Metal doors, sash, and trim.....	(2-5)	3825	Instruments to measure electricity.....	38.7	3356	Nonferrous rolling and drawing, n.e.c.....	(5-10)								
3483	Ammunition, except for small arms, n.e.c.....	(over 2)	3829	Measuring and controlling devices, n.e.c.....	13.5	3469	Metal stampings, n.e.c.....	2.9								
3494	Valves and pipe fittings.....	(over 2)	3842	Surgical appliances and supplies.....	(5-10)	3537	Industrial trucks and tractors.....	(2-5)								
3599	Special industry machinery, n.e.c.....	(2-5)	3861	Photographic equipment and supplies.....	20.1	3559	Special industry machinery, n.e.c.....	(2-5)								
3573	Electronic computing equipment.....	3.6	3931	Musical instruments.....	(5-10)	3573	Electronic computing equipment.....	(over 2)								
3613	Switchgear and switchboard apparatus...	8.3	3573	Electronic computing equipment.....	(2-5)	3579	Office machines, n.e.c.....	(2-5)								
3621	Motors and generators.....	(2-5)	3629	Electrical industrial apparatus, n.e.c.....	18.2	3612	Transformers.....	(10-20)								
3622	Industrial controls.....	2.7	3629	Electrical industrial apparatus, n.e.c.....		3622	Industrial controls.....	(2-5)								
3634	Electric housewares and fans.....	(10-20)	3362	Brass, bronze, and copper foundries,...	(over 2)	3629	Electrical industrial apparatus, n.e.c.....	(2-5)								
3647	Vehicular lighting equipment.....	(over 2)	3643	Current-carrying wiring devices.....	4.4	3643	Current-carrying wiring devices, n.e.c.....	18.0								
	Motor vehicle parts and accessories....	2.4	3647	Engine electrical equipment.....	(over 2)	3694	Engine electrical equipment.....	(over 2)								
3714	Aircraft.....	18.2	3622	Industrial controls.....	(20-50)	3699	Electrical equipment and supplies, n.e.c.....	(2-5)								
3728	Aircraft equipment, n.e.c.....	28.7	3624	Carbon and graphite products.....	(2-5)	3714	Motor vehicle parts and accessories...	(over 2)								
3761	Guided missiles and space vehicles.....	95.2	3357	Nonferrous wire drawing and insulating..	(2-5)	3823	Process control instruments.....	3.7								
3764	Space propulsion units and parts.....	(10-20)	3643	Current-carrying wiring devices.....	4.4	3825	Instruments to measure electricity.....	53.1								
3769	Space vehicle equipment, n.e.c.....	4.6	3694	Engine electrical equipment.....	(2-5)	3832	Dental equipment and supplies.....	(over 2)								

Note: Data shown parenthetically are ranges expressed in millions of dollars. - Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.

Product classes 36621 and 36627 are combined to avoid disclosing data for individual companies.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value <sup>a</sup> (million dollars)
3651- --	RADIO AND TELEVISION RECEIVING SETS, TOTAL.....	.....	(X)	3,609.7	(X)	3,568.2
36511 00	Household and Automobile Radios, and Radio-Phonograph Combinations: As reported in the census of manufactures <sup>1</sup> .....	.....	(X)	754.5	(X)	697.4
	As reported in Current Industrial Reports series MA-36M <sup>1</sup> .....	Million units.	15.7	744.9	19.3	686.5
	Home-type radio receivers, complete sets, except radio- phonograph combinations and television sets: Socket powered, except consoles: Table models, except clock:					
36511 01	AM.....	...do.....	.1	1.3	1.3	13.1
36511 02	AM-FM and FM only.....	...do.....	.3	6.2	1.1	29.8
	Clock models:					
36511 03	AM.....	...do.....	.4	5.0	3.1	42.5
36511 04	AM-FM.....	...do.....	.5	14.1	.9	23.3
	Transistor portable:					
36511 21	AM.....	...do.....	.7	8.6	<sup>2</sup> 2.0	<sup>2</sup> 18.6
36511 22	AM-FM.....	...do.....			1.0	24.0
36511 23	Other home-type radios (battery-powered table and console models; socket-powered consoles; and portable, except transistor type).....	...do.....	.1	8.4	( <sup>2</sup> )	( <sup>2</sup> )
	Home-type radio-phonograph combinations, complete sets (including built-in recorders, excluding TV sets): Table models, including portable sets:					
36511 13	AM.....	...do.....	1.3	102.8	.1	2.6
36511 14	AM-FM.....	...do.....			.2	29.0
	Console models:					
36511 15	AM.....	...do.....	1.2	212.5	1.5	292.5
36511 16	AM-FM.....	...do.....				
36511 17	Automobile radios (broadcast receivers only).....	...do.....	11.2	392.8	8.2	211.1
36512 00	Household Television Receivers (Color and Black and White), Including Television Combinations: As reported in the census of manufactures <sup>1</sup> .....	.....	(X)	2,148.7	(X)	2,259.7
	As reported in Current Industrial Reports Series MA-36M <sup>1</sup> .....	Million units.	10.2	2,241.1	9.7	2,191.5
	Table models, including portable sets (with or without conventional radio):					
36512 01	Black and white.....	...do.....	2.9	228.0	4.0	340.6
36512 02	Color.....	...do.....	4.1	936.9	1.3	351.8
	Console and consolette models (with or without conventional radio):					
36512 03	Black and white.....	...do.....	.2	32.3	.8	92.4
36512 04	Color.....	...do.....	2.8	988.4	3.3	1,223.5
	TV-radio-phonograph tape recorder combination models:					
36512 05	Black and white.....	...do.....	.1	55.5	.1	10.7
36512 06	Color.....	...do.....			.3	172.5
36514 --	Phonographs and Record Player Attachments; Radio and Television Chassis Sold Separately; Recorders, Tuners, and Other Similar Home-Type Electronic Equipment.....	.....	(X)	373.4	(X)	396.1
36514 10	Phonographs and record players with attachments: As reported in the census of manufactures <sup>1</sup> .....	.....	(X)	176.9	(X)	221.6
	As reported in Current Industrial Reports Series MA-36M <sup>1</sup> .....	Million units.	3.9	175.7	4.4	202.5
36514 01	Phonographs: Mechanical (acoustical) reproduction phonographs with spring or electric motor.....	...do.....	( <sup>3</sup> )	( <sup>3</sup> )	.2	1.3
36514 02	Electronic phonographs with speaker: Coin operated.....	...do.....	.1	64.4	.1	48.0
	Noncoin operated.....	...do.....	2.5	88.0	3.6	137.2
36514 03	Monaural.....	...do.....	1.5	29.1	1.8	35.9
36514 04	Stereophonic.....	...do.....	1.0	58.9	1.8	101.2
	Record players:					
36514 07	With automatic record changers.....	...do.....	.7	14.3	.4	11.5
36514 08	With nonautomatic record changers.....	...do.....	.3	9.0	.2	4.5
36514 20	Recorders, tuners, and other home-type electronic equipment, for sale separately: As reported in the census of manufactures <sup>1</sup> .....	.....	(X)	163.3	(X)	144.8
	As reported in Current Industrial Reports Series MA-36M <sup>1</sup> .....	Million units.	<sup>3</sup> 2.7	<sup>3</sup> 150.4	2.5	128.2
36514 31	Recorders, home-type tape, wire, and disc (except radio-phonograph-TV-recorder combinations, office recording machines, and recorder mechanisms).....	...do.....	.3	21.5	.8	49.6
36514 62	Audio amplifiers and pre-amplifiers, home-type.....	...do.....	.1	15.6	.2	21.6
36514 65	Tuners (AM, FM, and AM-FM) and tuner-amplifier combinations.....	...do.....	.6	85.3	.4	43.1
36514 67	Other home-type electronic equipment (converters, adapters, etc.).....	...do.....	<sup>3</sup> 1.9	<sup>3</sup> 28.1	1.1	13.9

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers					
			1972		1967			
			Quantity	Value (million dollars)	Quantity	Value (million dollars)		
3651- --	RADIO AND TELEVISION RECEIVING SETS—Continued							
36514 --	Phonographs and Record Player Attachments; Radio and Television Chassis Sold Separately; Recorders, Tuners, and Other Similar Home-Type Electronic Equipment—Continued							
	Chassis for home-type radio and television receivers, for sale separately:							
36514 30,40	As reported in the census of manufactures <sup>1</sup> .....		(X)	28.5	(X)	9.1		
	As reported in Current Industrial Reports Series MA-36M <sup>1</sup> .....	Million units.	( <sup>3</sup> )	( <sup>3</sup> )	.5	8.2		
36514 30	Chassis for home-type radio receivers, for sale separately..	do.....	}	( <sup>3</sup> )	.5	8.2		
36514 40	Chassis for home-type television receivers, for sale separately.....	do.....						
36514 00	Recorders, audio amplifiers, audio equipment, etc., n.s.k.....		(X)	4.4	(X)	20.6		
36515 --	Speaker Systems, Microphones, Home-Type Electronic Kits, and Commercial Sound Equipment, Including Public Address Systems....		(X)	249.2	(X)	184.8		
36515 51	Loudspeakers, speaker systems (sold separately):							
	As reported in the census of manufactures.....		(X)	175.9	(X)	98.6		
	As reported in Current Industrial Reports Series MA-36N.....		(X)	167.4	(X)	94.5		
36515 55	Microphones (all types):							
	As reported in the census of manufactures <sup>1</sup> .....		(X)	39.5	(X)	34.9		
	As reported in Current Industrial Reports Series MA-36N <sup>1</sup> .....	1,000 units...	4,289.0	37.6	(X)	33.9		
36515 67	Home-type electronic kits to be assembled by consumer for radio receivers, tuners, amplifiers, and other audio equipment:							
	As reported in the census of manufactures.....		(X)	12.4	(X)	28.1		
	As reported in Current Industrial Reports Series MA-36N.....	1,000 units...	177.9	13.0	(X)	28.1		
36515 90	Other commercial sound equipment, except broadcast, including complete public address systems, music distribution apparatus, etc. (excluding components):							
	As reported in the census of manufactures <sup>1</sup> .....		(X)	16.8	(X)	10.6		
	As reported in Current Industrial Reports Series MA-36N <sup>1</sup> .....		(X)	16.9	(X)	10.6		
36515 00	Speaker systems, microphones, home-type electronic kits and commercial sound equipment, etc., n.s.k.....		(X)	4.6	(X)	12.6		
36510 00	Radio and television receiving sets, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	64.8	(X)	24.8		
36510 02	Radio and television receiving sets, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	19.1	(X)	5.4		
		Unit of measure	1972		1967			
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3652- --	PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPE, TOTAL. ....		(X)	(X)	537.3	(X)	(X)	271.0
	Phonograph Records, Record Blanks, and Prerecorded Tapes							
	Disc records (except electrical transcriptions):							
36520 22	45 r.p.m.—for own label.....	Mil. units.	260.3	250.6	34.4	163.3	156.2	21.6
36520 24	45 r.p.m.—on contract basis for others.....	do.....	(X)	281.0	25.8	(X)	202.7	19.8
	33-1/3 r.p.m.—for own label:							
36520 31	Stereophonic.....	do.....	181.4	162.7	121.0	138.2	132.7	76.6
36520 33	Monaural.....	do.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	96.3	94.9	38.7
	33-1/3 r.p.m.—on contract basis for others:							
36520 35	Stereophonic.....	do.....	(X)	274.4	75.5	(X)	84.8	33.1
36520 37	Monaural.....	do.....	(X)	4.7	1.7	(X)	55.6	16.4
36520 61	Other speeds, including 78 r.p.m. and electrical transcriptions, all speeds.....	do.....	(NA)	(NA)	48.4	.7	.8	.6
	Prerecorded tapes:							
	For own label:							
36520 82	Cartridge—8 track.....	1,000 reels.	40.4	40.4	62.7	}	(NA)	12.1
36520 84	Cassette.....	do.....	21.6	17.9	21.8			
36520 86	Other (reel to reel, cartridge—4 track, play tape, etc.)..	do.....	3.0	3.0	4.7			



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972			1967				
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers			
				Quantity	Value  (million dollars)		Quantity	Value  (million dollars)		
3652- --	PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPE--Continued									
	Phonograph Records, Record Blanks, and Prerecorded Tapes--Con. Prerecorded tapes--Continued									
	On contract basis for others:									
36520 87	Cartridge—8 track.....	1,000 reels	(X)	45.1	48.2	(X)	1.4	2.0		
36520 88	Cassette.....	...do....	(X)	17.2	18.6					
36520 89	Other (reel to reel, cartridge—4 track, play tape, etc.)...	...do....	(X)	2.8	4.9					
36520 91	Record blanks (disc type and others).....		(X)	(X)	13.0	(X)	(X)	4.7		
36520 00	Phonograph records, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	(X)	73.3	(X)	(X)	15.3		
36520 02	Phonograph records, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	(X)	23.3	(X)	(X)	8.3		
		Unit of measure	Total product shipments including interplant transfers							
			1972			1967				
			Quantity	Value  (million dollars)		Quantity	Value  (million dollars)			
3661- --	TELEPHONE AND TELEGRAPH APPARATUS, TOTAL.....		(X)	53,973.9		(X)	52,248.2			
36611 --	Telephone Switching and Switchboard Equipment.....		(X)	1,568.1		(X)	840.4			
36611 11	Telephone switchboards (central office and PBX subscriber A and B, trunk and toll).....					(X)	196.7			
36611 53	Dial automatic telephone switching equipment (central office, PABX, and toll), excluding electronic switching equipment.....	1,000 lines...	(NA)	1,069.5	{	4,298.4	540.0			
36611 55	Electronic telephone switching equipment (central office, PABX, and toll).....		(X)	486.8					(X)	100.6
36611 00	Telephone switching and switchboard equipment, n.s.k.....		(X)	11.8					(X)	3.0
36612 --	Other Telephone and Telegraph (Wire) Apparatus, Equipment, and Components.....		(X)	2,376.6		(X)	1,399.0			
	Telephone carrier equipment and repeater equipment (including open-wire and cable transmission):									
36612 13	Carrier equipment.....		(X)	342.7	{	(X)	244.0			
36612 15	Repeater equipment.....		(X)	142.0						
	Telephone instrument sets (transmitters and receivers with or without dial, for subscribers' use only:									
36612 33	Pushbutton dial type.....	1,000 sets...	{	14,824	366.7	1,689.4	39.2	{		
36612 35	Other than pushbutton dial type.....	...do....				8,058.5	135.3			
36612 61	Other telephone apparatus and equipment, including components...					(X)	1,239.0		(X)	719.1
	Telegraph (wire) apparatus and equipment and components, including military:									
36612 73	Teleprinter units (unit interpreted as a perforator, a reperforator, transmitting unit, receiving unit, teleprinter; whether page or tape printer sending or receiving or both; such units when combined in one case or housing should still be counted as separate units).....	1,000 units...		260.1	100.5	(NA)	91.7			
36612 75	Telegraph switching equipment.....		{	(NA)	174.2	(X)	2.9	{		
36612 77	Telegraph carrier systems.....					(X)	127.8			
36612 79	All other telegraph apparatus, equipment, and components, including facsimile.....					(X)				
36612 81	Data sets (digital or analog).....	1,000 sets...	{			(NA)	29.7	{		
36612 00	Other telephone and telegraph (wire) apparatus, equipment and components, n.s.k.....								(X)	11.5
36610 00	Telephone and telegraph apparatus for establishments with 10 employees or more. (See note.).....		(X)	25.1	(X)	7.3				
36610 02	Telephone and telegraph apparatus for establishments with less than 10 employees. (See note.).....		(X)	4.1	(X)	1.5				

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported out only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)				
		1972	1967			
3662- --	RADIO AND TV COMMUNICATION EQUIPMENT, TOTAL..... (See table 6A-2)	8,376.6	7,482.2			
36621 00	Commercial, industrial, and military communication equipment, except telephone communication equipment: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	1,554.8 1,403.4	1,615.9 1,499.4			
36622 00	Radio and television broadcast equipment, and closed circuit systems: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	429.6 393.8	344.1 322.2			
36623 --	Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....	336.4	231.0			
36623 10	Intercommunication equipment, except telephone and telegraph: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	298.5 287.3	188.6 180.7			
36623 21	Railway signals and attachments, electric: Railway highway grade-crossing signals, exclusive of relays and other control apparatus.....	16.5	5.0			
36623 29	Other railway signal systems and safety control equipment.....	21.4	37.4			
36623 00	Intercommunication equipment, (except telephone and telegraph) and electric alarm and signal systems, n.s.k.....					
36624 00	Electronic navigational aids, except missile-borne and space-vehicle-borne equipment: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	1,073.9 1,090.3	1,215.1 1,117.3			
36625 00	Electronic search and detection apparatus, including radar, infrared, and sonar: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	2,264.0 2,102.4	1,671.2 1,580.8			
36626 00	Electronic military, industrial, and commercial equipment, n.e.c.: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	1,460.0 1,305.4	1,148.7 1,055.4			
36627 00	Space satellite-borne communications systems (complete package): <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	124.7 112.2	44.6 43.7			
36628 00	Missile-borne navigation and guidance systems and equipment: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	777.8 698.5	848.9 856.7			
36629 --	Microwave and Mobile Telephone (Communication) Equipment.....	148.3	165.8			
36629 77	Microwave telephone (communication) equipment.....	125.2	116.1			
36629 79	Mobile telephone (communication) equipment.....	16.7	49.1			
36629 00	Microwave and mobile telephone (communication) equipment, n.s.k.....	6.4	.6			
36620 00	Radio and TV communication equipment, n.s.k., for establishments with 10 employees or more. (See note.)	172.7	184.4			
36620 02	Radio and TV communication equipment, n.s.k., for establishments with less than 10 employees. (See note.).....	34.5	12.5			
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3671- --	ELECTRON TUBES, RECEIVING TYPE <sup>1</sup>					
36710 00	As reported in the census of manufactures..... As reported in Current Industrial Reports Series MA-36N.....		(X) (X)	189.6 182.0	(X) (X)	253.1 243.8
36710 11	Standard, GT, and GT/G.....	Million units..	23.3	29.7	36.0	41.5
36710 12	Miniature.....	do.....	112.6	123.1	208.2	164.6
36710 13	Subminiature.....	do.....	26.2	29.2	(NA)	37.7
36710 15	Other.....	do.....				

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3672- --	CATHODE RAY PICTURE TUBES, INCLUDING REBUILT: <sup>1</sup>					
36720 00	As reported in the census of manufactures.....		(X)	633.6	(X)	765.6
	As reported in Current Industrial Reports series MA-36N....		(X)	568.9	(X)	740.9
36720 13	Television picture tubes, including rebuilt:					
36720 15	Black and white.....	Million units..	3.3	45.2	4.2	72.3
	Color.....	...do.....	7.6	523.8	5.6	668.6
	TRANSMITTAL, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES (EXCEPT X-RAY): <sup>1</sup>					
36730 00	As reported in the census of manufactures.....		(X)	366.2	(X)	361.6
	As reported in Current Industrial Reports series MA-36N....		(X)	368.1	(X)	358.4
	Transmitting, Industrial, and Special Purpose Electron Tubes.					
	Power and special purpose tubes:					
36730 11	High vacuum tubes.....	1,000 units....	4,855.0	75.5	3,616.6	70.9
36730 22	Gas and vapor tubes.....	...do.....	3,973.2	32.3	1,906.3	24.8
36730 27	Klystrons.....	...do.....	122.3	44.3	(X)	43.8
36730 51	Magnetrons.....	1,000 units....	168.3	35.5	100.6	43.8
36730 91	Forward wave tubes.....	...do.....	22.9	68.6	29.1	48.6
36730 92	Backward wave tubes.....	...do.....	9.0	16.6	14.4	21.5
36730 93	Light sensing tubes.....	...do.....	(X)	33.3	(X)	49.9
36730 94	Light emitting and special purpose display tubes.....	1,000 units....	594.3	20.1	231.0	11.8
36730 95	Storage tubes.....	...do.....	(X)	30.9	(X)	24.2
36730 96	Miscellaneous special purpose tubes.....	...do.....	(X)	11.0	(X)	19.0
3674- --	SEMICONDUCTORS <sup>1</sup> .....		(X)	2,360.8	(X)	1,162.0
36741 --	Integrated Microcircuits, (Semiconductor Networks):					
36741 00	As reported in census of manufactures.....		(X)	1,267.8	(X)	247.5
	As reported in Current Industrial Reports series MA-36N.....		(X)	1,138.0	(X)	226.8
36741 13	Monolithic, digital.....	Million units..	(NA)	757.5	71.7	181.1
36741 23	Monolithic, analog.....	...do.....	(NA)	143.5	6.2	38.6
36741 15	Chip, all types.....	...do.....	(NA)	237.0	1.1	7.1
36741 25						
36742 --	Transistors:					
36742 00	As reported in census of manufactures.....		(X)	413.6	(X)	447.0
	As reported in Current Industrial Reports series MA-36N.....		(X)	410.2	(X)	428.5
36742 61	Silicon.....	Million units..	1,198.3	363.3	476.9	289.7
36742 65	Germanium.....	...do.....	73.8	46.9	177.5	138.8
36742 67	Other (gallium arsenide, silicon carbide, etc.).....	...do.....				
36743 --	Diodes and Rectifiers:					
36743 00	As reported in census of manufactures.....		(X)	300.8	(X)	287.5
	As reported in Current Industrial Reports series MA-36N.....		(X)	272.2	(X)	262.7
	Diodes, (including rectifiers and related devices):					
36743 23	Diodes, general purpose and switching, and rectifiers:					
36743 43	Silicon.....	Million units..	1,489.1	245.9	1,061.2	206.1
36743 13	Germanium.....	...do.....	177.3	16.1	451.5	41.9
36743 91	Selenium and copper oxide.....	...do.....	(NA)	10.2	35.5	14.7
	Other.....	...do.....				
36749--	Other Semiconductor Devices:					
36749 00	As reported in census of manufactures.....		(X)	337.2	(X)	176.0
	As reported in Current Industrial Reports series MA-36N.....		(X)	315.2	(X)	185.6
36749 92	Light sensitive semiconductor devices (all materials: doped germanium, silicon, indium antimonide, lead sulfide, etc.):					
36749 93	Solar cells.....	1,000 units....	(NA)	29.6	(X)	5.3
	Other.....	...do.....			(X)	13.8
36749 94	Zener diodes, (voltage regulator and voltage reference diodes)	Million units..	141.1	45.3	(X)	46.4
36749 95	Other semiconductor devices.....	...do.....	(NA)	185.6	(X)	85.4
36749 96	Semiconductor parts (chips, headers, cams, etc.).....	...do.....	(X)	54.7	(X)	34.7
36740 00	Semiconductor devices, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	32.9	(X)	3.0
36740 02	Semiconductor devices, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	8.5	(X)	1.0

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
36750 00	CAPACITORS FOR ELECTRONIC APPLICATIONS: <sup>1</sup>					
36750 00	As Reported in the census of manufactures.....		(X)	454.4	(X)	430.7
	As Reported in Current Industrial Reports series MA-36N.....		(X)	460.9	(X)	393.0
36750 12	Paper, metallized paper, film, and dual dielectric.....	Million units..	482.7	105.8	(X)	103.9
36750 21	Aluminum electrolytic (a.c. and d.c.).....	..do.....	184.4	71.4	157.2	64.3
36750 31	Tantalum electrolytic.....	..do.....	456.8	110.9	164.5	91.9
36750 41	Ceramic dielectric.....	..do.....	2,193.3	104.7	1,462.6	62.2
36750 51	Mica dielectric.....	..do.....	286.2	32.0	203.5	23.6
36750 61	Capacitors for automotive ignition systems.....					
36750 62	Other.....		(X)	36.2	(X)	47.2
	RESISTORS FOR ELECTRONIC APPLICATIONS <sup>1</sup>					
36760 00	As reported in the census of manufactures.....		(X)	438.1	(X)	442.4
	As reported in Current Industrial Reports series MA-36N.....		(X)	411.4	(X)	414.3
36760 11	Composition, fixed.....	Million units..	3,492.2	67.0	3,876.0	84.4
36760 51	Deposited carbon and metal film, fixed.....	..do.....	1,123.2	83.2	586.8	67.1
36760 31	Wire-wound, fixed.....	..do.....	276.7	56.7	232.2	47.5
36760 15	Variable nonwire-wound, precision and nonprecision.....	..do.....	285.2	105.5	227.2	92.4
36760 36	Variable wire-wound, precision and nonprecision.....	..do.....	145.6	63.9	89.3	99.4
36760 55	Other (thermistor, thermistor-bolometers, varister, etc.).....	..do.....	165.7	35.1	112.4	23.5
	Product		Total product shipments including interplant transfers (million dollars)			
			1972		1967	
	Coils, Transformers, Reactors, and Chokes for Electronic Applications: <sup>1</sup>					
3677- --	As reported in the census of manufactures.....				385.3	446.5
	As reported in Current Industrial Reports series MA-36N.....				335.2	408.7
36770 32	Audio transformers.....				34.9	47.0
36770 33	Low frequency chokes and filters.....				18.7	24.2
36770 41	Plate and filament transformers, including autotransformers, except toroidal.....				72.1	66.4
	Pulse transformers:					
36770 62	Computer types.....				5.5	14.7
36770 63	Other types.....				14.1	7.9
36770 12	RF chokes.....				11.0	16.6
36770 13	RF coils and IF transformers.....				59.7	68.3
36770 71	Television transformers and reactors (horizontal output, vertical deflection, focus coils, deflection yokes, etc.).....				83.5	136.0
36770 91	Toroidal windings (transformers and reactors), except complete magnetic amplifiers.....				25.8	21.5
36770 92	Other (balum coils, permeability tuning devices, etc.).....				9.9	6.1
	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	ELECTRONIC CONNECTORS: <sup>1</sup>					
3678- --	As reported in census of manufactures.....		(X)	523.6	(X)	(NA)
	As reported in Current Industrial Reports series MA-36N.....		(X)	482.0	(X)	429.4
36780 81	RF.....	Mil. connector equivalents..	69.7	47.3	54.2	48.7
36780 82	Cylindrical.....	..do.....	33.5	115.3	51.3	128.3
36780 83	Rack and panel.....	..do.....	167.0	113.0	(X)	82.6
36780 84	Printed circuit.....	Mil. connector equivalents..	434.4	110.1	49.3	67.7
36780 85	Fusion sealed.....	..do.....	3.3	8.4	9.4	13.3
36780 86	Other.....	..do.....	515.4	87.9	(X)	88.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3679- --	ELECTRONIC COMPONENTS AND ACCESSORIES, N.E.C., INCLUDING PARTS FOR ELECTRON TUBES, EXCEPT GLASS BLANKS.....	3,209.8	(NA)
36790 20	Electronic Components, N.E.C., Except Phonograph Needles and Cutting Styli: <sup>1</sup> As reported in the census of manufactures..... As reported in Current Industrial Reports series MA-36N <sup>6</sup> .....	2,849.8 2,503.0	(NA) 2,156.1
36790 47	Phonograph Needles and Cutting Styli.....	33.0	13.5
36790 00	Electronic components, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.) <sup>7</sup> ...	266.0	230.8
36790 02	Electronic components, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.) <sup>7</sup> ..	61.0	21.0

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. <sup>r</sup> Revised.

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified. A substantial difference exists between the Current Industrial Reports series and the 1972 census. Approximately 15 to 20 percent of this difference is attributable to establishments with an annual value of shipments of less than \$100,000 which are not included in the Current Industrial Reports. The remaining differences are due to undercoverage in the Current Industrial Reports and differences in reporting data by companies included in both the census and the Current Industrial Reports. Further reconciliation will be made to eliminate these differences.

<sup>2</sup>For 1967, product code 36511 23 is combined with product code 36511 21.

<sup>3</sup>For 1972, product codes 36514 01, 36514 30, and 36514 40 are combined with product code 36514 67.

<sup>4</sup>For 1972, figures for product code 36520 33, 33-1/3 r.p.m. monaural for own label, is combined with 36520 61, "Other speeds, including 78 r.p.m. and electronic transcriptions, all speeds," to avoid disclosing figures of individual companies.

<sup>5</sup>Includes interplant transfers between establishments of the same company valued between \$200 and \$500 million in 1972 and between \$250 and \$300 million in 1967. The exact figures cannot be published without revealing the operations of individual companies.

<sup>6</sup>See table 6A-2 for detail product data from Annual Survey MA-36N.

<sup>7</sup>Also includes products not specified by kind for industries 3675, 3676, 3677, and 3678. These industries include respectively: Electronic capacitors; electronic resistors; electronic coils and transformers; and electronic connectors.

TABLE 6A-2. Quantity and Value of Shipments of Radio and TV Communication Equipment: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	(As reported in Current Industrial Reports series MA-36N)					
	Commercial, Industrial, and Military Communication Equipment, Except Telephone Communication Equipment:					
36621 00	Commercial, industrial, and military communication equipment, except broadcast home-type intercommunication and telephone communication equipment.....		(X)	1,403.4	(X)	1,499.4
36621 91	Light communications systems and equipment, electronic (including infrared).....		(X)	21.8	(X)	15.3
	Point-to-point radio communication systems such as Dew Line, White Alice, etc., (except real estate), sold as a complete package: antennae, power supplies, receivers, transmitters, multiplexing and demodulating equipment, etc.:					
36621 11	Very low frequency and low frequency (below 300 kc).....		(X)	90.0	(X)	2.5
36621 13	Medium and high frequency (300 kc to 30 mc).....				(X)	60.0
36621 14	Very high frequency and ultra high frequency - to 890 mc....					
36621 15	Microwave line-of-sight; microwave scatter; and microwave video relay, except studio-transmitter link.....		(X)	114.1	(X)	173.9
	Receivers, radio communications, (point-to-point) except amateur, and Citizens Radio, sold separately:					
36621 21	Very low frequency and low frequency (below 300 kc).....		(X)	134.9	(X)	6.6
36621 23	Medium and high frequency (300 kc to 30 mc).....				(X)	35.5
36621 24	Very high frequency and ultra high frequency - to 890 mc....					
36621 25	Microwave line-of-sight; microwave scatter; and microwave video relay, except studio transmitter link.....				(X)	50.2
	Transmitters and RF power amplifiers, radio communications (point-to-point), except amateur and Citizens Radio, sold separately:					
36621 31	Very low frequency and low frequency (below 300 kc).....		(X)	134.9	(X)	5.2
36621 33	Medium and high frequency (300 kc to 30 mc).....				(X)	27.0
36621 34	Very high frequency and ultra high frequency - to 890 mc....					
36621 35	Microwave line-of-sight; microwave scatter; and microwave video relay, except studio television link.....				(X)	78.4
	Space satellite communications systems:					
36621 43	Associated ground equipment (including telemetering, synchronization, relay, and command and control equipment).....		(X)	102.1	(X)	128.2
36621 45	Sonar communications systems and equipment.....				(X)	( <sup>3</sup> )
36621 47	Carrier current communications systems and equipment, n.e.c....		(X)	46.3	(X)	38.9
	Mobile radio systems, sold as complete packages (including transceivers, base stations, power amplifiers, antennae, repeaters, transmitters, receivers, etc., except amateur and Citizens Radio):					
36621 51	Airborne.....		(X)	53.1	(X)	103.0
36621 53	Marine.....				(X)	4.3
36621 55	Ground.....		(X)	263.9	(X)	287.3
	Mobile transceivers and transmitters, except amateur and Citizens Radio, sold separately:					
36621 61	Airborne.....	1,000 units...	(NA)	90.6	(NA)	34.5
36621 63	Marine.....	do.....			(NA)	5.7
36621 65	Ground.....	do.....			(NA)	50.2
	Mobile receivers, except amateur and Citizens Radio, sold separately:					
36621 71	Airborne.....		(X)	7.5		
36621 73	Marine.....					
36621 75	Ground.....					
36621 81	Portable receivers, transceivers, and transmitter-receivers, except amateur and Citizens Radio.....	1,000 units...	(NA)	142.0	(NA)	97.9
	Amateur radio communications equipment, fixed, mobile, and portable:					
36621 83	Transmitters and RF power amplifiers.....		(NA)	11.9	(X)	1.9
36621 85	Receivers.....	1,000 units...			(NA)	3.1
36621 87	Other (transceivers, transmitter-receivers, etc.).....				(X)	5.3
36621 89	Citizens Radio communication equipment.....	1,000 units...	131.1	13.4	182.2	14.7
36621 93	Electronic checkout, monitoring, evaluation, and other electronic support equipment for communications systems.....		(X)	97.9	(X)	30.7
36621 98	Other communications equipment, sold separately.....		(X)	176.7	(X)	<sup>3</sup> 201.1
	Antenna systems, except structural towers sold separately:					
36621 92	Communications antennae (below 890 mc).....		(X)	29.0	(X)	20.8
36621 94	Microwave, above 890 mc (horns, parabolas, etc.).....		(X)	15.7	(X)	9.6

See footnotes at end of table.



TABLE 6A-2. Quantity and Value of Shipments of Radio and TV Communication Equipment: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	As reported in Current Industrial Reports series MA-36N--Con.					
36622 --	Radio and Television Broadcast Equipment and Closed Circuit Systems.....		(X)	393.8	(X)	322.2
	Audio equipment:					
36622 12	Amplifiers.....	1,000 units...	190.4	20.9	260.5	20.1
36622 13	Control consoles and switchers.....	..do.....	(NA)	3.4	1.8	3.6
36622 14	Broadcast recorders.....	..do.....			(NA)	( <sup>1</sup> )
36622 15	Turntables.....	..do.....			30.6	1.9
36622 16	Other (power supplies, terminal equipment, etc.).....		(NA)	24.2	(X)	<sup>1</sup> 21.8
36622 37	Broadcast and studio sound effects equipment.....					
36622 38	Theatre sound equipment.....				(X)	1.4
	Video equipment:					
36622 22	Amplifiers.....	1,000 units...	14.9	4.2	22.9	8.1
36622 23	Cameras (TV and TV camera chains).....				(X)	( <sup>2</sup> )
36622 24	Control consoles and switchers.....	1,000 units...			(NA)	5.3
36622 25	Film equipment (broadcast film cameras, multiplexers, projectors, etc.).....				(X)	( <sup>2</sup> )
36622 26	Monitors.....	1,000 units...	(NA)	111.1	22.3	5.4
36622 27	Video tape recorders.....					
36622 28	Other (power supplies, synchronization equipment, terminal equipment, etc.).....				(X)	<sup>2</sup> 107.9
	Transmitters, RF power amplifiers, and related equipment:					
36622 32	AM.....				(X)	9.3
36622 33	FM.....				(X)	3.3
36622 34	TV.....				(X)	10.4
36622 35	TV boosters and repeaters.....		(X)	48.3		
36622 36	Other (broadcast transmission line equipment, phasing equipment, etc.).....				(X)	14.8
36622 51	Studio transmitter links (STL) and remote pickup equipment.....		(X)	7.7	(X)	4.0
36622 41	Closed circuit television systems and equipment.....		(X)	63.4	(X)	56.9
	Electronic kits to be assembled by purchaser:					
36622 92	Amateur equipment kits.....					
36622 93	Test and measuring equipment kits.....		(X)	45.8	(X)	23.9
36622 94	Other kits.....					
	Antenna systems, except structural towers sold separately:					
36622 30	Broadcasting transmitting antennae.....		(X)	64.7	(X)	4.3
36622 31	Community antennae systems.....				(X)	19.8
36623(pt.)	Intercommunication Equipment (Except Telephone and Telegraph) and Electric Alarm and Signal Systems and Devices.....		(X)	287.3	(X)	180.7
36623 11	Intercommunication equipment, electronically amplified (except intercommunication equipment designed primarily for use in telephone and telegraph networks).....		(X)	103.9	(X)	78.3
	Vehicular and pedestrian traffic control equipment:					
36623 42	Signal heads (including parts and accessories).....		(X)	18.5	(X)	14.8
36623 43	Electronic and electro-mechanical controllers, detectors, and sensors (including parts and accessories).....		(X)	68.9	(X)	31.2
36623 47	Alarm systems, electronic.....		(X)	96.1	(X)	56.5
36624 --	Electronic Navigational Aids, Except Missile-Borne and Space Vehicle-Borne Equipment.....		(X)	1,090.3	(X)	1,117.3
	Missile and space vehicle systems and equipment (beam riders, command guidance, inertial systems, infrared homing systems, radar systems, stellar trackers, television systems, combination systems, etc.):					
36624 13	Nonmissile and space vehicle guidance equipment (ground, ship, or airborne command guidance systems, etc.).....		(X)	140.0	(X)	110.4
36624 14	Electronic checkout, launching, and other missile and space vehicle support systems (ground, ship, and air).....		(X)	99.2	(X)	170.8
	Navigation systems and equipment (NAV AIDS) for aircraft, ship, and ground navigation (autopilots, beacons, transponders, collision warning devices, DECCA, DME, ILS, Doppler navigation systems, inertial navigation systems, optical/laser, LORAN, radio compasses and direction finders, SHORAN, TACAN, VOR, VORTAC equipment, etc.):					
36624 15	Airborne navigational systems.....		(X)	666.4	(X)	628.5
36624 16	Surface (ship and ground) navigational systems.....		(X)	60.7	(X)	49.1
36624 17	Underwater navigational systems.....		(X)	43.8		
36624 18	Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment.....		(X)	80.2	(X)	158.6

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Radio and TV Communication Equipment: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	As reported in Current Industrial Reports series MA-36N--Con.					
36625 --	Electronic Search and Detection Apparatus, Including Radar, Infrared, and Sonar.....		(X)	2,102.4	(X)	1,580.8
36625 12	Light reconnaissance and surveillance electronic systems and equipment (infrared, ultraviolet, and visible light).....				(X)	174.8
36625 25	Miscellaneous search, detection, identification and tracking system equipment.....		(X)	356.3	(X)	70.4
	Radar systems and equipment:					
	Search, detection, and acquisition radar systems and equipment (BMEWS, airborne and other early warning radars, air traffic control radars, air defense and fighter control radars, ship radars, harbor control radars, meteorological radars, etc.):					
36625 42	Airborne and missile/space radar.....		(X)	171.2	(X)	115.1
36625 44	Ship (marine) radar.....		(X)	119.3	(X)	32.6
36625 46	Ground radars.....		(X)	260.5	(X)	143.0
	Radar tracking systems and equipment (fire control, bombing, bombing-navigational radars, aircraft and missile tracking radars, etc.):					
36625 62	Airborne and missile/space radars.....		(X)	307.3	(X)	312.0
36625 64	Ship (marine) radars.....		(X)	88.9	(X)	118.2
36625 66	Ground radars.....		(X)	110.9		
	Radar instrumentation systems and equipment (altimeters, highway speed control radars, missile and space satellite tracking range radars, GCA and other precision approach radars, etc.):					
36625 72	Airborne and missile/space radars.....		(X)	16.4	(X)	15.3
36625 74	Ship (marine) radars.....		(X)	47.7	(X)	65.6
36625 76	Ground radars.....		(X)			
36625 82	Electronic checkout, monitoring, evaluation, and other electronic support equipment for radar systems.....		(X)	112.5	(X)	128.4
	Sonar search, detection, and tracking systems and equipment, including ASW (depth finding, fire control, fusing, guidance, hydrophones, mapping, sonabuoys, navigation, sonar fish finders, sonar range instrumentation, and other):					
36625 52	Surface ship applications (destroyers, destroyer escorts, etc.).....		(X)	88.2	(X)	125.0
36625 53	Submarine applications.....		(X)	110.6	(X)	97.4
36625 54	Submerged fixed systems.....		(X)	( <sup>3</sup> )	(X)	16.5
36625 55	Airborne.....		(X)	125.0	(X)	37.2
36625 56	Electronic checkout, monitoring, evaluation, and other electronic support equipment for sonar systems.....		(X)	<sup>3</sup> 83.6	(X)	42.1
36625 91	Specialized command and control data processing and display equipment sold separately from complete systems.....		(X)	109.9	(X)	87.1
36626 --	Electronic Military, Industrial, and Commercial Equipment, N.E.C..		(X)	1,305.4	(X)	1,060.6
	Countermeasures equipment:					
36626 11	Jamming equipment, communications and radar.....				(X)	(NA)
36626 13	Underwater countermeasures equipment.....				(X)	(NA)
36626 15	Other active countermeasure equipment (excluding passive materials such as chaff, window, needles, rope, etc.).....		(X)	( <sup>4</sup> )	(X)	(NA)
36626 41	Specialized electronic and communication intelligence equipment (ELINT and COMINT equipment), n.e.c.....				(X)	(NA)
	Ultrasonic equipment:					
36626 22	Cleaners.....		(X)	6.4	(X)	4.4
36626 24	Drills, solders, and welders.....				(X)	
36626 26	Other.....		(X)	12.0	(X)	10.7
36626 96	Other electronic industrial processing equipment.....		(X)	14.5	(X)	15.5
36626 31	Telemetry systems and equipment, n.e.c., sold separately.....		(X)	77.6	(X)	184.1
	Amplifiers, except audio, RF power, and video, sold separately:					
36626 61	Magnetic.....		(X)	2.3	(X)	2.6
36626 65	Pulse.....		(X)		(X)	( <sup>5</sup> )
36626 67	DC.....		(X)	11.4	(X)	7.8
36626 69	Other (differential, facsimile, etc.).....		(X)	20.0	(X)	<sup>5</sup> 77.4
36626 71	Automotive equipment, electronic.....				(X)	11.2
36626 81	Consumer electronic equipment, n.e.c.....		(X)	265.3	(X)	91.4
36626 91	Electronic trainers and simulators.....		(X)	103.2	(X)	102.6
36626 92	Electronic teaching machines and teaching aids.....		(X)	7.1	(X)	5.5
36626 97	Other electronic systems, equipment, and subassemblies, n.e.c.....		(X)	<sup>4</sup> 666.6	(X)	472.8
36626 59	Geophysical electronic equipment (exploration and other specialized geophysical equipment).....		(X)	35.3	(X)	27.5

See footnotes at end of table.

TABLE 6A-2. Quantity and Value of Shipments of Radio and TV Communication Equipment: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	As reported in Current Industrial Reports series MA-36N--Con.					
36626 --	Electronic Military, Industrial, and Commerical Equipment, N.E.C.--Continued					
36626 51	Meteorological electronics equipment and radio astronomy equipment (automatic weather stations and weather tracking equipment, ceilometers, transitometers, space satellite meteorological systems, and specialized meteorological telemetering equipment).....		(X)	43.9	(X)	25.9
36626 57	Particle accelerator electronics equipment and subassemblies for betatrons, cyclotrons, synchrotrons, etc.; linear accelerators; (dynamotrons, Vandergraaff, traveling wave, etc.).		(X)	13.8	(X)	21.2
36626 98	Scientific electronic equipment, n.e.c.....		(X)	14.9	(X)	
36627 --	Space Satellite-Borne Communications Systems, Complete Package....		(X)	112.2	(X)	43.7
36627 41	Space satellite-borne communications stations; complete package..		(X)	112.2	(X)	43.7
36628 --	Missile-Borne and Space Vehicle-Borne Navigation and Guidance Systems and Equipment.....		(X)	698.5	(X)	856.7
36628 12	Missile-borne and space vehicle-borne equipment.....		(X)	698.5	(X)	856.7

(X) Not applicable. (NA) Not available. <sup>r</sup> Revised.<sup>1</sup>Figures on broadcast recorder are included with other audio equipment (36622 16) in 1967 to avoid disclosing data for individual companies.<sup>2</sup>Figures on cameras (TV and TV camera chains) and film equipment are included with the combined figure for video tape recorders (36622 27) and other video equipment (36622 28 for 1967 to avoid disclosing data for individual companies.<sup>4</sup>Figures for product codes 36626 11, 36626 13, 36626 15, 36616 41, and 36626 97 are combined for 1972 to avoid disclosing data for individual companies.<sup>5</sup>Figures on pulse amplifiers (36626 65) are included with other amplifiers (differential, facsimile, etc.) (36626 69) for 1967 to avoid disclosing data for individual companies.

TABLE 6A-3. Quantity and Value of Shipments of Selected Electronic Components: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	As reported in Current Industrial Reports series MA-36N					
	Electronic Components, N.E.C., Except Phonograph Needles and Cutting Styli <sup>1</sup> .....		(X)	2,503.0	(X)	2,156.1
	Magnetic Recording Media:					
36790 01	Audio range tape.....	Mil. sq. ft...	1,501.3	110.5	461.3	42.0
36790 02	Computer tape.....	...do.....	899.0	88.6	537.8	87.6
36790 03	Instrumentation tape.....	...do.....	479.3	55.3	84.2	10.7
36790 04	Video tape.....	...do.....			61.3	13.6
36790 13	Electron tube parts, except glass blanks.....		(X)	98.3	(X)	74.1
36790 31	Phonograph cartridges and pickups.....	Million units.	(NA)	38.7	11.6	17.9
	Complex components (two or more components packaged and shipped as a single unit), except filters and other items listed elsewhere:					
36790 21	Passive component packages, or "modules" assembled from conventional components (RC networks, tone control packages, inter-stage coupling packages).....		(X)	22.8	(X)	<sup>1</sup> 452.5
36790 22	Active component packages or "modules" assembled from conventional components.....		(X)	<sup>(2)</sup>	(X)	188.1
36790 23	Active or passive component packages or "modules" (assembled from components fabricated during the assembly process or from specially designed, discrete, miniature components designed only for use in modules).....				(X)	<sup>(1)</sup>
36790 32	Switches, mechanical types for electronic circuitry (coaxial, tap, rotary wafer, slide selector, and similar types).....		(X)	77.9	(X)	61.6

See footnotes at end of table.



TABLE 6A-3. Quantity and Value of Shipments of Selected Electronic Components: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	As reported in Current Industrial Reports series MA-36N--Con. Electronic Components, n.e.c., Except Phonograph Needles and Cutting Styli--Continued					
	Static power supply converters for electronic applications, sold separately:					
36790 43	Regulated.....	1,000 units...	(X)	82.6	(X)	79.8
36790 44	Unregulated.....	1,000 units...	(NA)	7.4	(X)	4.9
36790 45	Variable frequency.....	1,000 units...	(X)	8.1	(X)	1.2
36790 46	Other (a.c., d.c., converters and inverters, klystron, vibrator etc.).....	1,000 units...	(X)	8.1	(X)	8.9
	Relays for electronic applications:					
36790 33	Clapper, rotary, plunger, or solenoid.....	Million units.	(NA)	40.6	(X)	156.9
36790 34	Other.....	..do.....	(NA)	40.6	(X)	156.9
36790 35	Home antennas.....	..do.....	25.4	54.5	20.2	59.2
36790 37	Auto antennas.....	..do.....	12.8	18.1	16.5	22.2
36790 38	Antennas accessories, sold separately.....	..do.....	(X)	39.3	(X)	41.4
36790 52	Printed circuit boards, printed cables, and forms already etched, placed, etc., ready for component insertion.....	1,000 units...	(X)	184.3	(X)	141.7
	Transducers, electrical/electronic input or output, n.e.c.:					
	Acoustical:					
36790 11	Sonar.....	1,000 units...	(X)	3.8	(X)	4.5
36790 12	Ultrasonic, vibration, etc.....	1,000 units...	(X)	3.6	(X)	1.2
	Mechanical:					
36790 14	Accelerometers.....	1,000 units...	(X)	6.6	19.6	7.9
36790 15	Pressure.....	1,000 units...	(X)	12.5	60.7	18.0
36790 16	Strain gages and other mechanical.....	1,000 units...	(X)	10.9	(X)	10.8
36790 18	Thermal: Pyrometers, thermo-couples, etc., excluding bimetal- lic, mercury, and other mechanical output types.....	1,000 units...	(X)	9.1	(X)	8.9
36790 19	Other optical (including any not covered under crystal, etc.), chemical, magnetic, nuclear, etc.....	1,000 units...	(X)	16.4	(X)	25.0
36790 28	Delay lines.....	1,000 units...	(X)	19.1	(X)	11.5
36790 29	Earphones and headsets, except telephone.....	1,000 units...	2,091.0	26.0	2,654.7	18.5
	Microwave components and devices, except antennas, tubes, and semiconductors:					
	Ferrite (including yttrium garnets) microwave components:					
36790 61	Circulators, all types, permanent magnet.....	1,000 units...	11.1	2.8	20.7	5.1
36790 62	Circulators, electromagnetic, used as switches, modulators, etc.....	1,000 units...	(NA)	8.6	(NA)	4.9
36790 64	Phase shifters.....	1,000 units...	(NA)	8.6	(NA)	4.9
36790 65	Other ferrite microwave components.....	1,000 units...	(NA)	8.6	(NA)	4.9
36790 63	Isolators.....	1,000 units...	(NA)	8.6	(NA)	4.9
36790 66	Microwave devices, other than ferrite and solid state:					
	Attenuators, dummy loads, high and low power terminations, etc.....	1,000 units...	(X)	10.8	(X)	9.6
36790 67	Cavities.....	1,000 units...	(X)	5.4	(X)	5.4
36790 68	Couplers: (directional couplers, hybrid junctions, etc.)....	1,000 units...	67.0	8.4	98.5	9.8
36790 69	Duplexers and diplexers, except electric tubes and ferrite devices.....	1,000 units...	(NA)	3.1	(X)	3.4
36790 71	Reactive microwave components, n.e.c.....	1,000 units...	(NA)	6.0	(X)	7.2
36790 73	Rotary joints and sector scan joints.....	1,000 units...	(NA)	6.0	(X)	7.2
36790 74	Switches, coaxial and waveguide.....	1,000 units...	(NA)	7.2	176.6	8.9
36790 75	Rigid waveguides and fittings.....	1,000 units...	(X)	10.7	(X)	14.3
36790 77	Flexible waveguides and fittings.....	1,000 units...	(X)	4.7	(X)	38.3
36790 78	Other microwave components, except ferrite devices.....	1,000 units...	(X)	23.4	(X)	38.3
	Microwave subassemblies:					
36790 56	Parametric amplifiers.....	1,000 units...	(X)	2.3	(X)	3.1
36790 57	Other solid state assemblies (frequency multipliers, harmonic generators, etc.).....	1,000 units...	(X)	9.9	(X)	10.1
	Crystals, filters, and related devices:					
	Filters, except microwave:					
36790 92	LC, RC, etc.....	1,000 units...	1,052.2	15.6	1,672.9	26.6
36790 91	Infrared, ultra-violet, etc., excluding optical lenses (ger- manium silicon, fused quartz, rock salt, and other).....	1,000 units...	(X)	23.9	(X)	9.8
36790 93	Mechanical.....	1,000 units...	(X)	23.9	(X)	16.0
36790 94	Quartz and other piezoelectric filters.....	1,000 units...	(X)	55.8	(X)	56.6
36790 95	Quartz crystals.....	1,000 units...	(X)	55.8	(X)	4.9
36790 96	Other crystals (ADP, Rochelle salt, ruby, garnet, etc.).....	1,000 units...	(X)	2,125.6	(X)	332.9
36790 39	Electronic parts, n.e.c., and specialized electronic hardware..	1,000 units...	(X)	2,125.6	(X)	332.9

(X) Not applicable. (NA) Not available.

<sup>1</sup>Figures for product codes 36790 21 and 36790 23 are combined for 1967 to avoid disclosing data for individual companies.<sup>2</sup>Figures for product codes 36790 22, 36790 23, and 36790 39 are combined for 1972 to avoid disclosing data for individual companies.<sup>3</sup>Figures for product codes 36790 73 and 36790 78 are combined for 1972 to avoid disclosing data for individual companies.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
HOUSEHOLD, AUTOMOBILE RADIOS, AND RADIO- PHONOGRAPH COMBINATIONS (36511)			RECORDERS, PHONOGRAPHS, AND RADIO AND TV CHASSIS (36514)--Continued		
United States.....	754.5	697.4	North Central Region.....	192.6	197.3
Northeast Region.....	148.2	185.0	East North Central Division.....	GG	GG
New England Division.....	20.9	32.6	Ohio.....	BB	-
Massachusetts.....	FF	32.6	Indiana.....	BB	30.0
Middle Atlantic Division.....	124.0	152.4	Illinois.....	146.8	118.0
New York.....	GG	93.3	Michigan.....	20.8	34.8
Pennsylvania.....	GG	FF	West North Central Division.....	CC	EE
North Central Region.....	449.8	371.5	Minnesota.....	CC	EE
East North Central Division.....	GG	GG	South Region.....	32.6	53.2
Ohio.....	FF	EE	South Atlantic Division.....	9.0	BB
Indiana.....	GG	GG	Maryland.....	AA	AA
Illinois.....	130.5	154.3	North Carolina.....	CC	BB
Michigan.....	AA	BB	Georgia.....	BB	-
West North Central Division.....	EE	EE	East South Central Division.....	23.6	35.8
Minnesota.....	BB	AA	Kentucky.....	CC	EE
Iowa.....	CC	EE	Tennessee.....	14.7	22.5
South Region.....	GG	138.6	Mississippi.....	BB	-
South Atlantic Division.....	40.9	FF	West Region.....	49.9	10.3
Virginia.....	FF	-	Pacific Division.....	EE	10.3
North Carolina.....	CC	EE	Washington.....	AA	-
Georgia.....	EE	-	California.....	FF	10.3
East South Central Division.....	GG	GG			
Kentucky.....	FF	FF	SPEAKER SYSTEMS ELECTRONIC KITS, AND SOUND EQUIPMENT, ETC., (36515)		
Tennessee.....	GG	GG	United States.....	249.2	184.8
West South Central Division.....	CC	-	Northeast Region.....	74.6	35.2
Arkansas.....	CC	-	New England Division.....	32.6	4.3
Texas.....	BB	-	Massachusetts.....	29.7	-
West Region.....	FF	2.2	Connecticut.....	BB	3.3
Pacific Division.....	FF	2.2	Middle Atlantic Division.....	42.1	31.0
California.....	FF	2.2	New York.....	7.6	13.6
HOUSEHOLD TV RECEIVERS AND TV COMBINATIONS (36512)			New Jersey.....	14.3	EE
United States.....	2,148.7	2,259.7	Pennsylvania.....	20.2	BB
Northeast Region.....	GG	378.3	North Central Region.....	114.9	97.1
Middle Atlantic Division.....	GG	GG	East North Central Division.....	108.3	85.5
New York.....	GG	180.9	Ohio.....	10.7	CC
Pennsylvania.....	GG	GG	Indiana.....	FF	CC
North Central Region.....	1,354.9	1,318.4	Illinois.....	38.0	46.7
East North Central Division.....	GG	1,295.8	Michigan.....	18.0	12.8
Indiana.....	GG	GG	Wisconsin.....	BB	EE
Illinois.....	GG	818.7	West North Central Division.....	6.6	11.6
West North Central Division.....	GG	22.6	Iowa.....	CC	CC
Missouri.....	GG	EE	South Region.....	33.7	31.4
South Region.....	628.8	520.1	South Atlantic Division.....	AA	-
South Atlantic Division.....	GG	GG	Florida.....	AA	-
Virginia.....	GG	GG	East South Central Division.....	FF	14.7
North Carolina.....	GG	FF	Kentucky.....	EE	CC
East South Central Division.....	GG	GG	Tennessee.....	CC	BB
Tennessee.....	GG	GG	West South Central Division.....	9.2	16.4
West South Central Division.....	GG	GG	Arkansas.....	AA	-
Arkansas.....	GG	GG	Oklahoma.....	CC	EE
Texas.....	FF	EE	Texas.....	2.2	BB
West Region.....	EE	43.0	West Region.....	27.6	21.0
Pacific Division.....	EE	43.0	Pacific Division.....	FF	FF
California.....	EE	43.0	California.....	FF	FF
RECORDERS, PHONOGRAPHS, AND RADIO AND TV CHASSIS (36514)			TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT (36611)		
United States.....	373.4	396.1	United States.....	1,568.1	840.4
Northeast Region.....	98.3	135.4	Northeast Region.....	GG	GG
New England Division.....	15.6	29.4	Middle Atlantic Division.....	GG	GG
Massachusetts.....	14.0	FF	New York.....	GG	GG
Connecticut.....	AA	-	New Jersey.....	GG	GG
Middle Atlantic Division.....	82.7	106.0	North Central Region.....	GG	GG
New York.....	72.8	GG	East North Central Division.....	GG	GG
New Jersey.....	AA	15.1	Ohio.....	GG	GG
Pennsylvania.....	FF	FF	Illinois.....	GG	GG
			Wisconsin.....	CC	AA
			West North Central Division.....	GG	GG
			Nebraska.....	GG	GG

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT (36611)--Continued			COMMERCIAL, INDUSTRIAL, AND MILITARY COMMUNICATION EQUIPMENT, EXCEPT TELEPHONE; AND SPACE SATELLITE- BORNE COMMUNICATIONS EQUIPMENT (36621 AND 36627)--Continued		
South Region.....	400.2	GG	Northeast Region--Continued		
South Atlantic Division.....	FF	CC	Middle Atlantic Division.....	335.7	GG
District of Columbia.....	AA	-	New York.....	124.3	227.3
Virginia.....	EE	CC	New Jersey.....	124.1	GG
Florida.....	EE	-	Pennsylvania.....	87.3	GG
East South Central Division.....	GG	FF	North Central Region.....	463.4	480.0
Tennessee.....	GG	FF	East North Central Division.....	271.3	GG
West South Central Division.....	GG	GG	Ohio.....	41.2	FF
Arkansas.....	BB	-	Indiana.....	28.8	45.6
Oklahoma.....	GG	GG	Illinois.....	197.6	194.6
Texas.....	GG	-	Michigan.....	3.2	-
West Region.....	GG	-	Wisconsin.....	2.1	-
Mountain Division.....	FF	-	West North Central Division.....	190.3	GG
Colorado.....	FF	-	Minnesota.....	29.6	EE
Pacific Division.....	FF	-	Iowa.....	GG	GG
Washington.....	FF	-	Missouri.....	BB	FF
California.....	AA	-	Nebraska.....	EE	BB
OTHER TELEPHONE AND TELEGRAPH (WIRE) APPARATUS (36612)			Kansas.....	EE	CC
United States.....	2,376.6	1,399.0	South Region.....	546.0	381.2
Northeast Region.....	GG	381.5	South Atlantic Division.....	432.2	GG
New England Division.....	GG	GG	Maryland.....	GG	GG
Massachusetts.....	GG	GG	Virginia.....	GG	GG
Rhode Island.....	BB	-	North Carolina.....	CC	BB
Connecticut.....	20.2	FF	South Carolina.....	BB	AA
Middle Atlantic Division.....	GG	GG	Georgia.....	1.2	-
New York.....	41.3	25.1	Florida.....	167.5	GG
New Jersey.....	GG	GG	East South Central Division.....	6.3	-
Pennsylvania.....	CC	-	Tennessee.....	AA	-
North Central Region.....	GG	GG	Alabama.....	BB	-
East North Central Division.....	GG	GG	West South Central Division.....	107.5	156.2
Ohio.....	GG	FF	Oklahoma.....	CC	CC
Indiana.....	GG	GG	Texas.....	GG	GG
Illinois.....	GG	330.6	West Region.....	239.2	167.8
Wisconsin.....	AA	BB	Mountain Division.....	19.8	FF
West North Central Division.....	GG	GG	Colorado.....	BB	CC
Minnesota.....	BB	-	Arizona.....	15.8	CC
Missouri.....	GG	FF	Pacific Division.....	218.3	GG
Nebraska.....	FF	EE	Oregon.....	AA	-
South Region.....	GG	GG	California.....	216.1	GG
South Atlantic Division.....	GG	GG	RADIO AND TV BROADCAST EQUIPMENT, AND CLOSED CIRCUIT SYSTEMS (36622)		
Maryland.....	GG	GG	United States.....	429.7	344.1
Virginia.....	FF	EE	Northeast Region.....	174.3	181.9
North Carolina.....	GG	GG	New England Division.....	18.7	11.7
South Carolina.....	BB	BB	Maine.....	BB	-
Georgia.....	AA	-	Massachusetts.....	EE	EE
Florida.....	CC	-	Connecticut.....	BB	AA
East South Central Division.....	GG	EE	Middle Atlantic Division.....	155.6	170.1
Alabama.....	GG	-	New York.....	25.7	FF
Mississippi.....	FF	EE	New Jersey.....	73.1	77.5
West South Central Division.....	GG	GG	Pennsylvania.....	56.7	FF
Arkansas.....	FF	FF	North Central Region.....	98.0	64.1
Louisiana.....	GG	FF	East North Central Division.....	89.6	61.9
Oklahoma.....	GG	GG	Ohio.....	BB	BB
Texas.....	1.5	-	Indiana.....	17.9	BB
West Region.....	GG	GG	Illinois.....	24.3	34.6
Mountain Division.....	GG	-	Michigan.....	FF	FF
Colorado.....	FF	-	Wisconsin.....	BB	-
New Mexico.....	FF	-	West North Central Division.....	8.4	2.2
Pacific Division.....	GG	GG	Minnesota.....	5.6	-
Washington.....	AA	-	North Dakota.....	AA	-
Oregon.....	EE	CC	South Region.....	21.2	25.1
California.....	GG	GG	South Atlantic Division.....	CC	10.1
COMMERCIAL, INDUSTRIAL, AND MILITARY COMMUNICATION EQUIPMENT, EXCEPT TELEPHONE; AND SPACE SATELLITE- BORNE COMMUNICATIONS EQUIPMENT (36621 AND 36627)			Maryland.....	1.5	5.2
United States.....	1,679.5	1,660.5	North Carolina.....	CC	-
Northeast Region.....	432.0	631.6	Florida.....	BB	-
New England Division.....	96.4	106.1	West South Central Division.....	11.0	EE
New Hampshire.....	FF	AA	Texas.....	10.8	EE
Massachusetts.....	42.5	87.6			
Rhode Island.....	CC	-			
Connecticut.....	22.2	17.4			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
RADIO AND TV BROADCAST EQUIPMENT, AND CLOSED CIRCUIT SYSTEMS (36622)—Continued			ELECTRONIC NAVIGATIONAL AIDS (EXCEPT SPACE VEHICLE-BORNE) (36624)—Continued		
West Region.....	136.2	73.0	South Region.....	100.0	187.9
Mountain Division.....	40.5	14.3	South Atlantic Division.....	38.9	GG
Colorado.....	FF	EE	Maryland.....	9.1	9.7
Arizona.....	BB	-	Virginia.....	16.9	FF
Utah.....	CC	AA	Florida.....	12.9	64.6
Pacific Division.....	95.7	58.8	East South Central Division.....	FF	CC
Washington.....	BB	-	Tennessee.....	CC	CC
Oregon.....	BB	-	Alabama.....	FF	-
California.....	GG	GG	West South Central Division.....	FF	85.0
			Texas.....	FF	(D)
INTERCOMMUNICATION EQUIPMENT AND ELECTRIC ALARM SYSTEMS (36623)			West Region.....	501.3	493.0
United States.....	336.2	231.0	Mountain Division.....	34.3	35.4
Northeast Region.....	190.2	135.9	Arizona.....	BB	EE
New England Division.....	55.7	37.6	Utah.....	FF	FF
Vermont.....	CC	-	Pacific Division.....	467.0	457.6
Massachusetts.....	FF	17.5	Washington.....	AA	-
Connecticut.....	28.2	20.1	California.....	GG	457.6
Middle Atlantic Division.....	134.5	98.3			
New York.....	86.8	GG	ELECTRONIC DETECTION APPARATUS, RADAR, AND SONAR, ETC., (36625)		
New Jersey.....	31.5	14.4	United States.....	2,264.0	1,671.2
Pennsylvania.....	16.2	FF	Northeast Region.....	823.6	738.6
North Central Region.....	73.5	46.5	New England Division.....	285.7	269.9
East North Central Division.....	46.6	31.0	Maine.....	BB	-
Ohio.....	24.1	17.3	New Hampshire.....	FF	CC
Indiana.....	BB	-	Massachusetts.....	181.5	167.8
Illinois.....	16.1	CC	Rhode Island.....	FF	FF
Michigan.....	BB	BB	Connecticut.....	FF	GG
West North Central Division.....	26.8	15.5	Middle Atlantic Division.....	537.9	468.7
Minnesota.....	CC	BB	New York.....	323.8	352.9
Iowa.....	CC	CC	New Jersey.....	186.5	GG
Missouri.....	8.0	BB	Pennsylvania.....	27.5	FF
Nebraska.....	BB	BB	North Central Region.....	148.3	144.0
South Region.....	30.7	13.5	East North Central Division.....	GG	GG
South Atlantic Division.....	14.7	2.2	Ohio.....	BB	46.0
Maryland.....	BB	AA	Indiana.....	GG	EE
Georgia.....	AA	-	Illinois.....	13.9	45.7
Florida.....	9.0	-	Michigan.....	FF	EE
East South Central Division.....	6.8	6.9	Wisconsin.....	7.0	2.6
Kentucky.....	BB	AA	West North Central Division.....	EE	EE
Tennessee.....	AA	CC	Missouri.....	CC	CC
West South Central Division.....	9.2	4.4	Kansas.....	BB	CC
Arkansas.....	BB	-			
Texas.....	CC	3.1	South Region.....	562.5	390.0
West Region.....	41.8	35.1	South Atlantic Division.....	381.6	295.1
Mountain Division.....	2.3	-	Maryland.....	GG	GG
Colorado.....	1.9	-	Virginia.....	11.3	EE
Pacific Division.....	39.5	(D)	North Carolina.....	GG	FF
Washington.....	AA	-	Georgia.....	CC	BB
California.....	FF	34.5	Florida.....	51.2	16.8
			East South Central Division.....	BB	EE
ELECTRONIC NAVIGATIONAL AIDS (EXCEPT SPACE VEHICLE-BORNE) (36624)			Tennessee.....	AA	EE
United States.....	1,073.9	1,215.1	Alabama.....	AA	-
Northeast Region.....	382.1	383.1	West South Central Division.....	GG	GG
New England Division.....	162.9	100.5	Texas.....	GG	GG
New Hampshire.....	BB	-			
Massachusetts.....	GG	96.5	West Region.....	729.6	398.6
Rhode Island.....	BB	-	Mountain Division.....	100.6	63.8
Connecticut.....	GG	4.0	Colorado.....	4.3	-
Middle Atlantic Division.....	219.3	282.6	Arizona.....	GG	FF
New York.....	133.5	209.1	Utah.....	CC	EE
New Jersey.....	GG	GG	Pacific Division.....	629.0	334.8
Pennsylvania.....	CC	AA	Washington.....	FF	BB
North Central Region.....	90.5	151.1	Oregon.....	BB	AA
East North Central Division.....	22.9	19.4	California.....	603.8	329.6
Ohio.....	AA	-			
Indiana.....	17.8	EE	ELECTRONIC MILITARY, INDUSTRIAL, AND COMMERCIAL EQUIPMENT, N.E.C., (36626)		
Illinois.....	2.0	1.8	United States.....	1,460.0	1,148.7
Michigan.....	AA	BB	Northeast Region.....	457.3	561.4
West North Central Division.....	67.6	131.7	New England Division.....	126.9	182.0
Minnesota.....	CC	FF	Maine.....	BB	-
Iowa.....	FF	GG	New Hampshire.....	FF	GG
Missouri.....	CC	CC	Massachusetts.....	53.1	GG
Kansas.....	EE	-	Rhode Island.....	BB	-
			Connecticut.....	FF	FF

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ELECTRONIC MILITARY, INDUSTRIAL, AND COMMERCIAL EQUIPMENT, N.E.C., (36626)--Continued			MISSILE-BORNE NAVIGATION AND GUIDANCE SYSTEMS (36628)--Continued		
Northeast Region--Continued			West Region.....	314.6	468.5
Middle Atlantic Division.....	330.4	379.4	Mountain Division.....	10.5	BB
New York.....	195.3	216.9	Colorado.....	BB	-
New Jersey.....	79.5	119.6	Arizona.....	CC	BB
Pennsylvania.....	55.6	42.9	Pacific Division.....	304.2	GG
			Oregon.....	AA	-
North Central Region.....	200.1	141.6	California.....	GG	GG
East North Central Division.....	156.2	120.6			
Ohio.....	31.1	FF	MICROWAVE AND MOBILE TELEPHONE COMMUNICATION EQUIPMENT (36629)		
Indiana.....	FF	6.3	United States.....	148.3	165.8
Illinois.....	62.8	69.0	Northeast Region.....	18.9	52.7
Michigan.....	9.1	10.9	New England Division.....	9.8	21.9
Wisconsin.....	EE	EE	Maine.....	AA	AA
West North Central Division.....	43.9	21.0	Massachusetts.....	6A	EE
Minnesota.....	9.7	8.5	Connecticut.....	AA	-
Missouri.....	FF	11.8	Middle Atlantic Division.....	9.2	30.8
Kansas.....	AA	-	New York.....	6.0	2.9
			New Jersey.....	BB	EE
South Region.....	306.6	146.5	North Central Region.....	FF	FF
South Atlantic Division.....	200.4	79.0	East North Central Division.....	BB	1.4
Maryland.....	133.7	38.1	Illinois.....	BB	-
Virginia.....	12.8	CC	West North Central Division.....	FF	FF
West Virginia.....	EE	BB	Missouri.....	FF	FF
North Carolina.....	BB	-			
Georgia.....	BB	-	South Region.....	FF	GG
Florida.....	35.8	27.0	South Atlantic Division.....	10.6	2.3
East South Central Division.....	26.3	10.3	North Carolina.....	6.3	-
Kentucky.....	BB	BB	Florida.....	BB	-
Tennessee.....	EE	CC	West South Central Division.....	FF	GG
Alabama.....	CC	-	Texas.....	FF	GG
West South Central Division.....	79.9	57.2			
Arkansas.....	BB	BB	West Region.....	58.0	EE
Louisiana.....	CC	-	Pacific Division.....	58.0	11.3
Oklahoma.....	EE	12.9	California.....	GG	11.3
Texas.....	59.6	44.2			
			RECEIVING TYPE ELECTRON TUBES, EXCEPT CATHODE RAY (36710)		
West Region.....	496.0	299.2	United States.....	189.6	(NA)
Mountain Division.....	26.2	FF	Northeast Region.....	GG	(NA)
Colorado.....	BB	AA	New England Division.....	CC	(NA)
New Mexico.....	12.8	BB	Massachusetts.....	CC	(NA)
Arizona.....	EE	FF	Middle Atlantic Division.....	GG	(NA)
Pacific Division.....	469.8	GG	New Jersey.....	GG	(NA)
Washington.....	5.9	EE	Pennsylvania.....	GG	(NA)
Oregon.....	2.6	AA			
California.....	461.3	248.4	North Central Region.....	29.7	(NA)
			East North Central Division.....	FF	(NA)
MISSILE-BORNE NAVIGATION AND GUIDANCE SYSTEMS (36628)			Ohio.....	BB	(NA)
United States.....	777.8	848.9	Indiana.....	EE	(NA)
Northeast Region.....	238.9	214.0	Illinois.....	BB	(NA)
New England Division.....	GG	54.8	West North Central Division.....	CC	(NA)
New Hampshire.....	AA	-	Missouri.....	CC	(NA)
Massachusetts.....	GG	FF			
Connecticut.....	CC	CC	South Region.....	FF	(NA)
Middle Atlantic Division.....	GG	159.3	East South Central Division.....	29.0	(NA)
New York.....	29.7	GG	Kentucky.....	29.0	(NA)
New Jersey.....	GG	FF			
Pennsylvania.....	CC	FF	TRANSMITTAL, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES (EXCEPT X-RAY) (36730)		
			United States.....	366.2	(NA)
North Central Region.....	32.4	56.3	Northeast Region.....	198.2	(NA)
East North Central Division.....	FF	EE	New England Division.....	GG	(NA)
Ohio.....	5.6	BB	New Hampshire.....	EE	(NA)
Indiana.....	BB	AA	Massachusetts.....	FF	(NA)
Michigan.....	BB	CC	Connecticut.....	CC	(NA)
Wisconsin.....	EE	CC	Middle Atlantic Division.....	GG	(NA)
West North Central Division.....	BB	FF	New York.....	FF	(NA)
Missouri.....	AA	FF	New Jersey.....	FF	(NA)
			Pennsylvania.....	GG	(NA)
South Region.....	191.9	116.1			
South Atlantic Division.....	GG	GG			
Florida.....	GG	FF			
East South Central Division.....	EE	FF			
Tennessee.....	CC	FF			
Alabama.....	EE	BB			
West South Central Division.....	GG	FF			
Texas.....	GG	FF			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TRANSMITTAL, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES (EXCEPT X-RAY) (36730)--Continued			TRANSISTORS (36742)--Continued		
North Central Region.....	21.5	(NA)	North Central Region.....	FF	FF
East North Central Division.....	EE	(NA)	East North Central Division.....	EE	FF
Ohio.....	AA	(NA)	Ohio.....	BB	EE
Indiana.....	BB	(NA)	Indiana.....	CC	CC
Illinois.....	8.7	(NA)	West North Central Division.....	EE	EE
West North Central Division.....	CC	(NA)	Missouri.....	EE	EE
Missouri.....	CC	(NA)			
South Region.....	23.6	(NA)	South Region.....	GG	GG
South Atlantic Division.....	EE	(NA)	South Atlantic Division.....	BB	CC
Virginia.....	CC	(NA)	Florida.....	BB	-
Florida.....	CC	(NA)	West South Central Division.....	GG	GG
East South Central Division.....	CC	(NA)	Texas.....	GG	GG
Kentucky.....	CC	(NA)	West Region.....	193.7	GG
West South Central Division.....	AA	(NA)	Mountain Division.....	GG	GG
Texas.....	AA	(NA)	Arizona.....	GG	GG
			Pacific Division.....	GG	59.9
			California.....	GG	59.5
West Region.....	122.9	(NA)			
Mountain Division.....	CC	(NA)	DIODES AND RECTIFIERS (36743)		
Utah.....	CC	(NA)	United States.....	300.8	287.5
Pacific Division.....	GG	(NA)			
California.....	GG	(NA)	Northeast Region.....	137.9	132.9
			New England Division.....	33.4	55.3
INTEGRATED MICROCIRCUITS (SEMICONDUCTOR NET- WORKS) (36741)			Massachusetts.....	30.8	39.5
United States.....	1,267.8	247.5	Connecticut.....	BB	-
Northeast Region.....	506.2	66.8	Middle Atlantic Division.....	104.5	77.6
New England Division.....	GG	47.7	New York.....	29.1	FF
Maine.....	FF	FF	New Jersey.....	9.0	17.3
Vermont.....	GG	-	Pennsylvania.....	66.4	FF
Massachusetts.....	21.4	FF	North Central Region.....	30.7	24.7
Rhode Island.....	AA	-	East North Central Region.....	CC	EE
Middle Atlantic.....	GG	19.2	Ohio.....	BB	BB
New York.....	GG	CC	Indiana.....	BB	CC
New Jersey.....	CC	CC	Illinois.....	AA	AA
Pennsylvania.....	7.4	2.2	West North Central Division.....	FF	EE
			Missouri.....	FF	EE
North Central Region.....	FF	AA	South Region.....	30.8	30.6
East North Central Division.....	FF	-	South Atlantic Division.....	BB	CC
Ohio.....	FF	-	Virginia.....	BB	BB
Indiana.....	AA	-	West South Central Division.....	FF	FF
West North Central Division.....	5.0	-	Texas.....	FF	FF
Minnesota.....	BB	-	West Region.....	101.4	99.4
South Region.....	GG	GG	Mountain Division.....	FF	EE
South Atlantic Division.....	GG	EE	Arizona.....	FF	EE
Maryland.....	AA	EE	Pacific Division.....	GG	GG
Virginia.....	GG	(NA)	California.....	GG	GG
Florida.....	FF	4.8	OTHER SEMICONDUCTOR DEVICES (36749)		
West South Central Division.....	GG	GG	United States.....	337.2	176.0
Texas.....	GG	GG			
West Region.....	370.6	108.0	Northeast Region.....	153.3	102.5
Mountain Division.....	GG	38.6	New England Division.....	48.6	29.3
Idaho.....	BB	-	Massachusetts.....	37.4	27.4
New Mexico.....	EE	-	Rhode Island.....	CC	-
Arizona.....	GG	FF	Connecticut.....	BB	2.0
Utah.....	BB	CC	Middle Atlantic Division.....	104.7	73.2
Pacific Division.....	GG	69.4	New York.....	34.7	17.0
Washington.....	AA	-	New Jersey.....	1.9	16.7
California.....	GG	69.4	Pennsylvania.....	68.1	39.5
			North Central Region.....	9.2	5.6
TRANSISTORS (36742)			East North Central Division.....	CC	BB
United States.....	413.6	447.0	Indiana.....	AA	BB
Northeast Region.....	125.4	186.3	Illinois.....	BB	-
New England Division.....	19.1	52.6	Michigan.....	1.7	-
New Hampshire.....	CC	FF	West North Central Division.....	BB	AA
Massachusetts.....	EE	12.0	Missouri.....	BB	AA
Connecticut.....	AA	CC	South Region.....	54.0	FF
Middle Atlantic Division.....	106.4	133.7	South Atlantic Division.....	EE	-
New York.....	17.6	49.2	Virginia.....	AA	-
New Jersey.....	CC	10.5	North Carolina.....	AA	-
Pennsylvania.....	GG	74.0	Florida.....	EE	-
			East South Central Division.....	AA	-
			Kentucky.....	AA	-
			West South Central Division.....	FF	FF
			Texas.....	FF	FF

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER SEMICONDUCTOR DEVICES (36749)--Continued			ELECTRONIC CONNECTORS (36780)--Continued		
West Region.....	120.7	FF	South Region.....	41.5	(NA)
Mountain Division.....	FF	FF	South Atlantic Division.....	EE	(NA)
Arizona.....	FF	FF	North Carolina.....	CC	(NA)
Pacific Division.....	GG	FF	Florida.....	EE	(NA)
California.....	GG	FF	East South Central Division.....	BB	(NA)
			Kentucky.....	BB	(NA)
			West South Central Division.....	FF	(NA)
			Arkansas.....	EE	(NA)
			Oklahoma.....	BB	(NA)
			Texas.....	AA	(NA)
COILS, TRANSFORMERS, REACTORS, AND CHOKES FOR ELECTRONIC APPLICATIONS (36770)			West Region.....	62.1	(NA)
United States.....	385.3	(NA)	Mountain Division.....	BB	(NA)
Northeast Region.....	98.3	(NA)	Arizona.....	BB	(NA)
New England Division.....	16.7	(NA)	Pacific Division.....	GG	(NA)
Massachusetts.....	EE	(NA)	California.....	GG	(NA)
Connecticut.....	BB	(NA)			
Middle Atlantic Division.....	81.6	(NA)	ELECTRONIC COMPONENTS, N.E.C., (36790)		
New York.....	43.8	(NA)	United States.....	3,209.8	(NA)
New Jersey.....	13.6	(NA)	Northeast Region.....	1,608.9	(NA)
Pennsylvania.....	24.2	(NA)	New England Division.....	313.7	(NA)
North Central Region.....	207.8	(NA)	Maine.....	CC	(NA)
East North Central Division.....	156.3	(NA)	New Hampshire.....	17.4	(NA)
Ohio.....	21.7	(NA)	Vermont.....	FF	(NA)
Indiana.....	46.7	(NA)	Massachusetts.....	166.5	(NA)
Illinois.....	66.1	(NA)	Rhode Island.....	CC	(NA)
Michigan.....	11.8	(NA)	Connecticut.....	83.6	(NA)
Wisconsin.....	10.0	(NA)	Middle Atlantic Division.....	1,295.2	(NA)
West North Central Division.....	51.5	(NA)	New York.....	980.9	(NA)
Minnesota.....	12.1	(NA)	New Jersey.....	150.7	(NA)
Iowa.....	20.0	(NA)	Pennsylvania.....	163.8	(NA)
Missouri.....	14.6	(NA)	North Central Region.....	680.6	(NA)
South Dakota.....	BB	(NA)	East North Central Division.....	507.8	(NA)
South Region.....	38.7	(NA)	Ohio.....	79.3	(NA)
South Atlantic Division.....	42.2	(NA)	Indiana.....	GG	(NA)
West Virginia.....	AA	(NA)	Illinois.....	271.2	(NA)
North Carolina.....	2.7	(NA)	Michigan.....	23.9	(NA)
South Carolina.....	BB	(NA)	Wisconsin.....	FF	(NA)
Florida.....	EE	(NA)	West North Central Division.....	172.8	(NA)
East South Central Division.....	CC	(NA)	Minnesota.....	69.9	(NA)
Tennessee.....	9.7	(NA)	Iowa.....	34.0	(NA)
West South Central Division.....	EE	(NA)	Missouri.....	47.6	(NA)
Arkansas.....	BB	(NA)	South Dakota.....	BB	(NA)
Texas.....	CC	(NA)	Nebraska.....	BB	(NA)
West Region.....	40.5	(NA)	Kansas.....	13.1	(NA)
Mountain Division.....	BB	(NA)	South Region.....	352.5	(NA)
Arizona.....	AA	(NA)	South Atlantic Division.....	228.0	(NA)
Pacific Division.....	FF	(NA)	Delaware.....	bb	(NA)
Oregon.....	CC	(NA)	Maryland.....	18.6	(NA)
California.....	FF	(NA)	District of Columbia.....	AA	(NA)
			Virginia.....	71.8	(NA)
ELECTRONIC CONNECTORS (36780)			West Virginia.....	AA	(NA)
United States.....	523.6	(NA)	North Carolina.....	36.5	(NA)
Northeast Region.....	232.0	(NA)	South Carolina.....	3.5	(NA)
New England Division.....	51.2	(NA)	Georgia.....	BB	(NA)
New Hampshire.....	BB	(NA)	Florida.....	87.6	(NA)
Massachusetts.....	5.9	(NA)	East South Central Division.....	53.1	(NA)
Rhode Island.....	CC	(NA)	Kentucky.....	EE	(NA)
Connecticut.....	38.1	(NA)	Tennessee.....	6.6	(NA)
Middle Atlantic Division.....	180.8	(NA)	Alabama.....	FF	(NA)
New York.....	77.2	(NA)	West South Central Division.....	71.4	(NA)
New Jersey.....	6.2	(NA)	Arkansas.....	1.8	(NA)
Pennsylvania.....	97.4	(NA)	Oklahoma.....	12.0	(NA)
North Central Region.....	188.0	(NA)	Texas.....	57.6	(NA)
East North Central Division.....	116.0	(NA)	West Region.....	567.8	(NA)
Ohio.....	EE	(NA)	Mountain Division.....	59.9	(NA)
Indiana.....	EE	(NA)	Colorado.....	28.4	(NA)
Illinois.....	GG	(NA)	New Mexico.....	BB	(NA)
Michigan.....	BB	(NA)	Arizona.....	27.1	(NA)
West North Central Division.....	72.0	(NA)	Utah.....	AA	(NA)
Minnesota.....	GG	(NA)	Pacific Division.....	507.9	(NA)
Kansas.....	AA	(NA)	Washington.....	5.9	(NA)
			Oregon.....	FF	(NA)
			California.....	GG	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967 <sup>1</sup>	1963	1958
3651	Radio and TV receiving sets.....	3,609.7	3,296.3	2,966.1	3,569.2	3,839.3	3,568.2	2,073.9	1,481.6
36511	Household and automobile radios and radio-phonographs.....	754.5	700.5	617.5	752.5	820.5	697.4	531.3	344.9
36512	Household TV receivers and TV combinations.....	2,148.7	2,006.5	1,755.5	2,126.8	2,313.1	2,259.7	1,092.3	726.6
36514	Recorders, phonographs, and radio and TV chassis.....	373.4	280.8	315.2	384.0	433.8	396.1	320.0	320.6
36515	Speaker systems, electronic kits, sound equipment, etc.....	249.2	278.1	244.0	259.1	238.9	184.8	114.2	88.8
36510	Radio and TV receiving sets, n.s.k.....	83.9	30.4	33.9	46.8	(33.0)	30.2	16.1	.6
36520	Phonograph records, blanks, and prerecorded tapes.....	537.3	464.5	402.2	400.6	314.4	271.0	178.7	136.2
3661	Telephone and telegraph apparatus.....	3,973.9	3,708.1	3,574.5	3,038.3	2,446.5	2,248.2	1,538.0	1,079.0
36611	Telephone switching and switchboard equipment.....	1,568.1	1,606.7	1,458.0	1,203.8	941.4	840.4	491.3	434.7
36612	Other telephone and telegraph (wire) apparatus.....	2,376.6	2,070.2	2,086.9	1,826.9	1,491.6	1,399.0	1,045.2	637.3
36610	Telephone and telegraph apparatus, n.s.k.....	29.2	(31.2)	(29.6)	(7.6)	(13.8)	8.8	1.5	7.0
3662	Radio and TV communication equipment.....	8,376.6	7,995.1	8,453.9	8,506.1	8,285.4	7,482.2	6,064.8	2,382.3
36621	Commercial, industrial, and military communication equipment, except telephone.....	<sup>2</sup> 1,554.8	1,488.0	1,869.4	1,723.8	1,610.1	1,615.9	1,016.1	<sup>2</sup> 416.0
36622	Radio and TV broadcast equipment, closed circuit systems.....	429.7	361.0	378.7	400.2	359.4	344.1	149.7	53.8
36623	Intercom. equipment and electric alarm systems.....	336.2	256.5	253.2	296.2	270.4	231.0	165.8	129.8
36624	Electronic navigational aids (except space vehicle-borne equipment).....	1,073.9	1,039.8	1,131.4	1,271.7	1,154.5	1,215.1	1,295.3	<sup>3</sup> 425.5
36625	Electronic detection apparatus, radar, sonar, etc.....	2,264.0	2,447.4	2,302.8	2,094.5	2,107.2	1,671.2	1,615.0	1,016.4
36626	Electronic military, industrial, and commercial equipment, n.e.c.....	1,460.0	1,317.5	1,403.0	1,671.1	(S)	1,148.7	724.5	<sup>2</sup> 340.7
36627	Space satellite-borne communications equipment.....	124.7	72.8	83.6	59.7	57.0	44.6	28.7	( <sup>2</sup> )
36628	Missile-borne navigation, guidance systems.....	777.8	770.7	831.3	740.0	823.5	848.9	972.9	( <sup>3</sup> )
36629	Microwave and mobile telephone communication equipment.....	148.3	154.8	135.9	(116.6)	151.2	165.8	64.8	( <sup>2</sup> )
36620	Communication equipment, n.s.k.....	207.2	(86.6)	(64.6)	132.2	153.3	196.9	32.0	-
36710	Receiving-type electron tubes, except cathode ray.....	189.6	223.8	219.8	230.8	248.7	253.1	287.9	337.3
36720	Cathode ray picture tubes, including rebuilt.....	633.6	518.1	457.9	613.5	737.7	765.6	248.5	177.3
36730	Transmittal, special electron tubes, except X-ray.....	366.2	289.2	336.1	391.7	403.1	361.6	286.7	224.9
3674	Semiconductors and related devices.....	2,360.8	1,566.5	1,581.5	1,492.9	1,238.6	1,162.0	623.3	236.7
36741	Integrated microcircuits (semiconductor networks).....	1,267.8	696.1	594.4	479.5	346.8	247.5	} 623.3	} 236.7
36742	Transistors.....	413.6	397.4	476.7	473.5	405.4	447.0		
36743	Diodes and rectifiers.....	300.8	297.8	337.6	299.5	262.8	287.5		
36749	Other semiconductor devices.....	337.2	164.9	168.7	229.5	213.5	176.0		
36740	Semiconductors and related devices, n.s.k.....	41.4	(10.3)	(4.1)	10.9	10.1	4.0		
36750	Capacitors for electronic applications.....	454.4	386.2	413.0	493.0	452.2	430.7	318.8	183.6
36760	Resistors for electronic applications.....	438.1	347.9	348.4	432.4	411.3	442.4	312.6	146.8
36770	Electronic coils, transformers, reactors, and chokes.....	385.3	390.9	388.5	365.1	380.6	446.5	274.4	192.0
36780	Electronic connectors.....	523.6	} 3,387.3	3,372.9	3,284.0	2,920.7	3,100.5	<sup>4</sup> 1,595.5	<sup>4</sup> 775.2
36790	Electronic components, n.e.c. <sup>5</sup> .....	3,209.8							

- Represents zero. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>For 1958 product classes 36627 and 36629 were part of product class 36621.

<sup>3</sup>For 1958, product class 36628 was part of product class 36624.

<sup>4</sup>For 1963 and 1958, product class 36741 was partly product class 36790.

<sup>5</sup>Includes products not specified by kind for industries 3675, 3676, 3677, and 3678.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3651.--RADIO AND TV RECEIVING SETS					
	Materials, parts, containers, and supplies, total.....		(X)	2,197.1	(X)	2,399.5
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	4.6	1.4	9.8	3.3
331012	Sheet and strip.....	..do.....	48.5	10.9	38.1	7.2
331019	All other carbon steel mill shapes and forms.....	..do.....	4.5	2.6	(NA)	3.0
331020	Alloy steel (except stainless).....	..do.....	12.5	9.5	12.6	5.8
331033	Stainless steel:					
331050	Sheet and strip.....	..do.....				
	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	19.0	26.6	18.4	11.0
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	3.5	4.7	10.3	9.8
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	2.0	.9	2.6	1.4
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	3.0	1.5	4.8	2.9
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	.3	.4		
336100	Aluminum and aluminum-base alloy castings (rough and semi- finished <sup>1</sup> .....	..do.....	3.1	2.5	3.8	3.0
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units.	1.0	3.1	6.0	11.2
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	3.3	9.9	4.3	11.5
367012	Electron tubes, except X-ray and cathode ray picture tubes <sup>1</sup> .....	..do.....	60.7	42.3	148.2	86.4
367200	Cathode ray picture tubes <sup>1</sup> .....	..do.....	9.5	485.2	7.3	616.0
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	588.9	56.9	175.4	48.4
367410	Monolithic (solid state) integrated circuits.....	..do.....	(X)	23.2	(X)	(D)
251011	Cabinets (wood, metal, and plastics).....	Million units.	11.8	207.3	16.5	244.0
339913	Ferrite (powders and paste).....	..do.....	(X)	2.4	(X)	2.5
260091	Paper and paperboard containers.....	..do.....	(X)	28.7	(X)	24.2
970099	All other materials, and components, parts, containers, and supplies consumed.....	..do.....	(X)	1,164.5	(X)	<sup>2</sup> 1,091.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	..do.....	(X)	112.6	(X)	217.8
	INDUSTRY 3652.--PHONOGRAPH RECORDS AND PRERECORDED MAGNETIC TAPES					
	(No materials data collected)					
	INDUSTRY 3661.--TELEPHONE AND TELEGRAPH APPARATUS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>2</sup> 1,839.0	(X)	982.9
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	15.7	3.6	20.7	3.9
331012	Sheet and strip.....	..do.....	71.7	18.9	82.8	16.6
331019	All other carbon steel mill shapes and forms.....	..do.....	9.7	2.1	8.5	2.0
331021	Alloy steel (except stainless):		26.5	21.1	(NA)	10.2
	Bars and bar shapes.....	..do.....				
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....				
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	22.4	32.7	17.3	19.1
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	8.6	9.0	10.0	11.8
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	25.4	25.4	12.0	7.4
335143	Plate, sheet, and strip, including military cups and discs..	..do.....			(NA)	14.4
335152	Pipe and tube.....	..do.....			2.7	2.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	..do.....	13.9	8.1	5.6	2.7
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....			2.2	1.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....			2.8	1.6

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3661.--TELEPHONE AND TELGRAPH APPARATUS--Continued						
Materials, parts, containers, and supplies--Continued						
336100	Aluminum and aluminum-base alloy castings (rough and semifinished) <sup>2</sup>	Million lb...	10.4	11.0	9.9	5.8
367010	Electron tubes, except X-ray <sup>1</sup> .....	1,000 units..	(D)	(D)	2.1	4.5
367410	Monolithic (solid state) integrated circuits.....	.....	(X)	16.1	(X)	(D)
367408	Solid state semiconductors <sup>1</sup> .....	Million units	(D)	(D)	97.2	46.0
282130	Thermoplastic resins including modified resins.....	Million lb. (dry basis).	(D)	(D)	24.8	9.6
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.)	...do.....	16.0	5.8	7.7	2.0
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	1,509.6	(X)	<sup>2</sup> 789.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	21.5	(X)	32.4
INDUSTRY 3662.--RADIO AND TV COMMUNICATION EQUIPMENT						
Materials, parts, containers, and supplies, total.....						
			(X)	2,998.8	(X)	3,153.4
Mill shapes and forms, except castings:						
Carbon steel:						
331012	Sheet and strip.....	1,000 s. tons.	42.3	10.3	22.7	4.5
331011	Bars and bar shapes.....	...do.....	11.3	3.2	14.1	3.2
331015	Structural shapes.....	...do.....	8.2	2.7	16.0	2.9
331017	Wire and wire products.....	...do.....	4.2	.9	(NA)	3.9
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	1.0	3.1	1.1
Alloy steel, except stainless:						
331021	Bars and bar shapes.....	...do.....	4.8	2.3	9.6	3.0
331029	All other alloy steel mill shapes and forms.....	...do.....	34.6	24.0	1.1	1.1
Stainless steel:						
331033	Sheet and strip.....	...do.....	1.5	2.5	3.2	4.7
331050	All other stainless steel mill shapes and forms.....	...do.....	1.8	2.9		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	30.8	27.7	23.9
335791	Aluminum content.....	Million lb....	(NA)			
Copper and copper base alloy:						
335728	Bare wire (for electrical conduction only).....	...do.....	6.1	4.7	5.2	3.6
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	3.0	3.5	3.2	2.4
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	3.9	3.8	1.9	1.6
335152	Pipe and tube.....	...do.....	1.0	1.4	1.8	1.3
Aluminum and aluminum-base alloy:						
335301	Sheet, plate, and foil.....	...do.....	22.4	14.5	(NA)	11.9
335405	Extruded shapes including extruded rod, bar, pipe, tube, etc.	...do.....	17.2	11.3	17.3	12.1
335008	All other aluminum mill shapes and forms.....	...do.....	15.8	10.3	3.7	2.4
Castings (rough and semifinished): <sup>1</sup>						
332045	Steel.....	1,000 s. tons.	2.4	2.4	(NA)	11.4
336100	Aluminum and aluminum-base alloy.....	Million lb....	22.1	24.2	21.9	22.8
336200	Copper and copper-base alloy.....	...do.....	.7	1.1	1.9	1.8
339915	Metal powders.....	...do.....	(NA)	.3	2.2	.4
Fractional horsepower electric motors (under 1 hp): <sup>1</sup>						
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	324.2	12.9	(NA)	18.7
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....	376.0	8.5	271.3	9.7
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	(NA)	64.4	42.5	70.1
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	316.9	162.6	260.4	150.9
367410	Monolithic (solid state) integrated circuits.....	.....	(X)	129.0	(X)	58.8
281995	Silicon, hyper pure.....	1,000 kgs....	(NA)	2.5	(D)	(D)
333977	Germanium.....	1,000 lb....	(NA)	.3	(D)	(D)
260091	Paper and paperboard containers.....	.....	(X)	11.6	(X)	12.8
329905	Mica.....	Pounds.....	(NA)	.7	(NA)	1.0
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb....	.5	1.5	.9	1.0
339913	Ferrites (powder and paste).....	.....	(X)	1.6	(X)	.4
Glass and glass products:						
322921	Tube blanks.....	1,000 units...	(NA)	1.3	34.7	.8
320311	Other than tube blanks.....	.....	(X)	5.6	(X)	2.7
367901	Fabricated electron tube parts, except blanks.....	.....	(X)	7.9	(X)	(D)
282130	Thermoplastic resins including modified resins.....	Million lb....	5.1	3.0	3.5	1.6
282140	Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.)	.....	(NA)	2.2	8.8	3.6
970099	All other materials and components, parts, containers and sup- plies consumed.....	.....	(X)	2,196.8	(X)	<sup>2</sup> 2,254.7
976000	Materials, parts, containers and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	228.3	(X)	446.6

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3671.--ELECTRON TUBES, RECEIVING TYPE	.....				
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>2</sup> 43.8	(X)	55.8
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	}	(NA)	(NA)	(D)
331012	Sheet and strip.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	}	(D)	(NA)	(D)
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	}	(D)	(NA)	(D)
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(Z)	(D)	{	-
335791	Aluminum content.....	Million lb....	-	-		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	.2	.4	(NA)	(D)
335102	Rod, bar and mechanical wire, including extruded and/or drawn shapes.....	..do.....	}	(D)	(NA)	(D)
335143	Plate, sheet, and strip, including military cups and discs..	..do.....				
335152	Pipe and tube.....	..do.....				
362110	Fractional horsepower electric motors (under 1 hp.) <sup>1</sup>					
	Timing motors synchronous and subsynchronous.....	1,000 units...	(NA)	(D)	(NA)	(D)
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....	(NA)	(D)	(NA)	(D)
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	(NA)	(D)	(NA)	(D)
260091	Paper and paperboard containers.....	.....	(X)	(D)	(X)	1.7
329905	Mica.....	1,000 lb.....	(NA)	(D)	(NA)	(D)
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb....	(NA)	(D)	1.3	1.9
335693	Molybdenum, rolled, drawn, or extruded.....	1,000 lb.....	(NA)	(D)	23.5	1.9
335733	Tungsten wire.....	.....	(X)	(D)	(X)	3.3
333977	Germanium.....	1,000 lb.....	(D)	(D)	(NA)	(NA)
367410	Monolithic (solid state) integrated circuits.....	.....	(X)	(D)	(NA)	(NA)
	Glass and glass products:					
322921	Tube blanks.....	Million units.	250.0	2.4	334.1	3.3
320311	Other than tube blanks.....	.....	(X)	(D)	(X)	1.3
367901	Fabricated electron tube parts, except blanks.....	.....	(X)	(D)	(X)	(D)
282130	Thermoplastic resins.....	1,000 lb. (dry basis)..	(NA)	(D)	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	20.3	(X)	<sup>2</sup> 41.0
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	.6	(X)	1.4
	INDUSTRY 3672.--CATHODE-RAY TELEVISION PICTURE TUBES					
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>2</sup> 335.4	(X)	341.6
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shpaes.....	1,000 s. tons.	}	(D)	(D)	(D)
331012	Sheet and strip.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	}	(D)	(D)	(D)
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	}	(D)	(D)	(D)
331050	All other stainless steel mill shapes and forms.....	..do.....				
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	}	(D)	(D)	(D)
335143	Plate, sheet, and strip, including military cups and discs..	..do.....				
335152	Pipe and tube.....	..do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	}	(D)	(D)	(D)
335405	Extruded shapes, including extruded rod, bar, pipe, tube,etc.	..do.....				
335008	All other aluminum mill shapes and forms.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3672.--CATHODE-RAY TELEVISION PICTURE TUBES--Continued					
	Materials, parts, containers, and supplies--Continued					
367010	Electron tubes, except X-ray.....	1,000 units...	(D)	(D)	22.0	0.1
260091	Paper and paperboard containers.....	.....	(X)	(D)	(X)	4.7
	Glass and glass products:					
322921	Tube blanks.....	Millions.....	11.4	149.2	16.8	115.3
320311	Other than tube blanks.....	.....	(X)	(D)	(X)	(D)
367901	Fabricated electron tube parts, except blanks.....	.....	(X)	(D)	(X)	(D)
282130	Thermoplastic resins, including modified resins.....	1,000 lb. (dry basis)..	(D)	(D)	(D)	(D)
282140	Thermosetting resins.....	..do.....	(D)	(D)	5.3	2.1
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	52.7	(X)	206.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	8.8	(X)	13.2
	INDUSTRY 3673.--ELECTRON TUBES, TRANSMITTING					
	Materials, parts, containers and supplies, total.....	.....	(X)	2114.0	(X)	98.6
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 tons...	(NA)	1.3	4.3	3.2
331012	Sheet and strip.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	.9	1.8		
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.4	.9		
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	(NA)	.8	(D)	(D)
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	.9	1.2	.7	.8
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	.5	.8	.7	.9
335152	Pipe and tube.....	..do.....	.3	.9	.2	.2
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.3	.4	.2	.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....			.2	.5
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, and welded tubing, etc.).....	..do.....				
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(Z)	(Z)
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	(D)	(D)
339915	Metal powders.....	..do.....	(D)	(D)	(D)	(D)
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(D)	(D)
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....	(D)	(D)	(D)	(D)
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	(D)	(D)	1.7	.4
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	7.9	2.2	4.5	.8
260091	Paper and paperboard containers.....	.....	(X)	1.4	(X)	.6
329905	Mica.....	1,000 lb.....	(Z)	(Z)	(Z)	(Z)
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb....	.6	1.8	.4	1.3
335691	Tantalum mill products.....	1,000 lb.....	(Z)	(Z)	4.1	.1
335693	Molybdenum, rolled, drawn or extruded.....	..do.....	33.6	.9	17.3	.7
335733	Tungsten wire.....	Million meters	.7	.3	1.5	.3
	Glass and glass products:					
322921	Tube blanks.....	Million units.	1.2	3.3	.7	4.4
320311	Other than tube blanks.....	.....	(X)	1.7	(X)	1.0
367901	Fabricated electron tube parts except blanks.....	.....	(X)	26.8	(X)	31.0
367410	Monolithic (solid state) integrated circuits.....	.....	(X)	(D)	(X)	(NA)
281995	Silicon, hyperpure.....	Million kg....	(D)	(D)	(NA)	(NA)
339913	Ferrites (powder and paste).....	.....	(X)	(D)	(X)	(NA)
282130	Thermosetting resins, including modified resins.....	Million lb....	(X)	(D)	(NA)	(NA)
282140	Thermosetting resins.....	..do.....	(X)	(D)	(X)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	57.2	(X)	246.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	2.7	(X)	5.3

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3674.--SEMICONDUCTORS AND RELATED DEVICES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>2</sup> 703.9	(X)	306.9
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	.1	4.9	2.4
331012	Sheet and strip.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	(NA)	.8	.3	1.0
331029	All other alloy steel mill shapes and forms.....	..do.....				
331033	Stainless steel:					
331050	Sheet and strip.....	..do.....				
	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.3	.4	.6	.4
335791	Aluminum content.....	Million lb....	(NA)			
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	..do.....	(NA)	.7	1.0	2.5
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	.9	1.5	2.4	1.6
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	1.0	1.3		
335152	Pipe and tube.....	..do.....	(Z)	(Z)		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	.2	.2	.4	.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	..do.....	.2	.2	.3	.2
335008	All other aluminum mill shapes and forms.....	..do.....	(Z)	(Z)	.1	.1
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
336200	Copper and copper-base alloy.....	..do.....	(D)	(D)	(D)	(D)
339915	Metal powders.....	..do.....	(NA)	.3	(D)	(D)
	Fractional horsepower electric motors (under 1 hp.) <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(NA)	1.3	-	-
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....				
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	(NA)	.6	(NA)	.1
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	53.6	11.9	24.5	6.2
367410	Monolithic (solid-state) integrated circuits.....	..do.....	(X)	(D)	(X)	(NA)
281995	Silicon, hyperpure.....	Kilograms....	(NA)	47.5	596.7	21.3
333977	Germanium.....	1,000 lb....	9.1	1.7	83.4	7.6
260091	Paper and paperboard containers.....	..do.....	(X)	3.0	(X)	1.6
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb....	1.5	4.2	1.3	3.8
335691	Tantalum mill products.....	1,000 lb....	-	-	(NA)	.7
335693	Molybdenum, rolled, drawn, or extruded.....	..do.....	(NA)	1.3	25.4	.6
335733	Tungsten wire.....	Million meters	(NA)	.1	(NA)	.1
	Glass and glass products:					
322921	Tube blanks.....	Million units.	(NA)	.6	328.9	2.1
320311	Other than tube blanks.....	..do.....	(X)	5.4	(X)	3.0
367901	Fabricated electron tube parts, except blanks.....	..do.....	(X)	(D)	(X)	6.8
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).. ..do.....	(D)	(D)	1.9	.6
282140	Thermosetting resins.....	..do.....	1.0	1.4	.1	.2
970099	All other materials and components, parts, containers, and sup- plies consumed.....	..do.....	(X)	502.7	(X)	<sup>2</sup> 215.5
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	..do.....	(X)	51.9	(X)	28.1
		Unit of measure	1972			
			Quantity	Delivered cost (million dollars)		
	INDUSTRY 3675.--ELECTRONIC CAPACITORS					
	Materials, parts, containers, and supplies, total.....				(X)	142.1
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)			1.4
331012	Sheet and strip.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
INDUSTRY 3675.--ELECTRONIC CAPACITORS--Continued				
Materials, parts, containers, and supplies--Continued				
Mill shapes and forms, except castings--Continued				
Alloy steel, except stainless:				
331021	Bars and bar shapes.....	1,000 s. tons.....	(NA)	.5
331029	All other alloy steel mill shapes and forms.....	..do.....		
331033	Stainless steel:	..do.....		
331050	Sheet and strip.....	..do.....		
	All other stainless steel mill shapes and forms.....	..do.....		
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	(D)	(D)
335791	Aluminum content.....	Million lb.....		
Copper and copper-base alloy:				
335728	Bare wire (for electrical conduction only).....	..do.....	2.8	2.6
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	(NA)	1.4
335143	Plate, sheet, and strip, including military cups and discs...	..do.....		
335152	Pipe and tube.....	..do.....		
Aluminum and aluminum-base alloy:				
335301	Sheet, plate, and foil.....	..do.....	17.8	18.1
335405	Extruded shapes, including extruded rod, bar, pipe, tube,etc.	..do.....	1.5	1.3
335008	All other aluminum mill shapes and forms.....	..do.....	(D)	(D)
Castings (rough and semifinished): <sup>1</sup>				
332045	Steel.....	1,000 s. tons.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....		
336200	Copper and copper-base alloy.....	..do.....		
339915	Metal powders.....	..do.....		
			(NA)	9.5
Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>				
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(D)	(D)
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....		
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	(D)	(D)
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	(D)	(D)
367410	Monolithic (solid-state) integrated circuits.....	..do.....	(D)	(D)
281995	Silicon, hyperpure.....	Kilograms.....	-	-
333977	Germanium.....	1,000 lb.....	-	-
260091	Paper and paperboard containers.....		(X)	7.1
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb.....	(D)	(D)
335691	Tantalum mill products.....	1,000 lb.....	235.9	9.0
335693	Molybdenum, rolled, drawn, or extruded.....	..do.....	(D)	(D)
335733	Tungsten wire.....	Million meters.....	-	-
Glass and glass products:				
322921	Tube blanks.....	Million units.....	-	-
320311	Other than tube blanks.....		(X)	.5
367901	Fabricated electron tube parts, except blanks.....		-	-
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).....	(D)	(D)
282140	Thermosetting resins.....	..do.....	4.4	3.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	76.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....		(X)	5.6
INDUSTRY 3676.--ELECTRONIC RESISTORS				
Materials, parts, containers, and supplies, total.....				
			(X)	98.6
Mill shapes and forms, except castings:				
Carbon steel:				
331011	Bars and bar shapes.....	1,000 s. tons.....	(NA)	4.4
331012	Sheet and strip.....	..do.....		
331015	Structural shapes.....	..do.....		
331017	Wire and wire products.....	..do.....		
331019	All other carbon steel mill shapes and forms.....	..do.....		
Alloy steel, except stainless:				
331021	Bars and bar shapes.....	..do.....	(NA)	1.0
331029	All other alloy steel mill shapes and forms.....	..do.....		
Stainless steel:				
331033	Sheet and strip.....	..do.....	(NA)	1.0
331050	All other stainless steel mill shapes and forms.....	..do.....		
335790	Insulated wire and cable.....	Mil. lb. (copper per content).....	(NA)	(D)
335791	Aluminum content.....	Million lb.....		
Copper and copper-base alloy:				
335728	Bare wire (for electrical conduction only).....	..do.....	3.3	2.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	3.4	3.7
335143	Plate, sheet, and strip, including military cups and disc....	..do.....	2.6	2.2
335152	Pipe and tube.....	..do.....	.4	.3

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972				
			Quantity	Delivered cost			
				(million dollars)			
INDUSTRY 3676.--ELECTRONIC RESISTORS--Continued							
Materials parts, containers, and supplies--Continued							
Mill shapes and, forms, except casting--Continued							
Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	Million lb.....	}	(NA)	.6		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....					
335008	All other aluminum mill shapes and forms.....	...do.....					
Castings (rough and semifinished): <sup>1</sup>							
332045	Steel.....	1,000 s. tons.....	(D)	(D)			
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(D)	(D)			
336200	Copper and copper-base alloy.....	...do.....	-	-			
339915	Metal powders.....	...do.....	(D)	(D)			
Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>							
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	}	(D)	(D)		
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....					
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	(D)	(D)			
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	(D)	(D)			
367410	Monolithic (solid-state) integrated circuits.....	.....	-	-			
281995	Silicon, hyperpure.....	Kilograms.....	(D)	(D)			
333977	Germanium.....	1,000 lb.....	-	-			
260091	Paper and paperboard containers.....	.....	(X)	1.4			
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb.....	(D)	(D)			
335691	Tantalum mill products.....	1,000 lb.....	-	-			
335693	Molybdenum, rolled, drawn, or extruded.....	...do.....	(D)	(D)			
335733	Tungsten wire.....	Million meters.....	(D)	(D)			
Glass and glass products:							
322921	Tube blanks.....	Million units.....	-	-			
320311	Other than tube blanks.....	.....	(X)	(D)			
367901	Fabricated electron tube parts, except blanks.....	.....	-	-			
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).....	1.1	.5			
282140	Thermosetting resins.....	...do.....	1.6	1.2			
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	63.1			
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	16.0			
INDUSTRY 3677.--ELECTRONIC COILS AND TRANSFORMERS							
Materials, parts, containers, and supplies, total.....							
Mill shapes and forms, except castings:							
Carbon steel:							
331011	Bars and bar shapes.....	1,000 s. tons.....	}	(NA)	10.3		
331012	Sheet and strip.....	...do.....					
331015	Structural shapes.....	...do.....					
331017	Wire and wire products.....	...do.....					
331019	All other carbon steel mill shapes and forms.....	...do.....	}	(NA)	5.3		
Alloy steel, except stainless:							
331021	Bars and bar shapes.....	...do.....					
331029	All other alloy steel mill shapes and forms.....	...do.....					
Stainless steel:							
331033	Sheet and strip.....	...do.....	}	(NA)	5.3		
331050	All other stainless steel mill shapes and forms.....	...do.....					
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	13.4	}	16.5		
335791	Aluminum content.....	Million lb.....	(NA)				
Copper and copper-base alloy:							
335728	Bare wire (for electrical conduction only).....	...do.....	15.2	16.3			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	1.9	2.1			
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	1.1	.9			
335152	Pipe and tube.....	...do.....	(D)	(D)			
Aluminum and aluminum-base alloy:							
335301	Sheet, plate, and foil.....	...do.....	}	(NA)	1.8		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....					
335008	All other aluminum mill shapes and forms.....	...do.....					
Castings (rough and semifinished): <sup>1</sup>							
332045	Steel.....	1,000 s. tons.....	(D)	(D)			
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(D)	(D)			
336200	Copper and copper-base alloy.....	...do.....	-	-			
339915	Metal powders.....	...do.....	(D)	(D)			

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost		
				(million dollars)		
	INDUSTRY 3677.--ELECTRONIC COILS AND TRANSFORMERS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	-	-		
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....	-	-		
367410	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	-	-		
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	(NA)	.6		
367410	Monolithic (solid-state) integrated circuits.....	...do.....	-	-		
281995	Silicon, hyperpure.....	Kilograms.....	.3	.4		
333977	Germanium.....	1,000 lb.....	-	-		
260091	Paper and paperboard containers.....	...do.....	(X)	2.3		
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb.....	(NA)	.4		
335691	Tantalum mill products.....	1,000 lb.....	(D)	(D)		
335693	Molybdenum, rolled, drawn, or extruded.....	...do.....	-	-		
335733	Tungsten wire.....	Million meters.....	-	-		
	Glass and glass products:					
322921	Tube blanks.....	Million units.....	-	-		
320311	Other than tube blanks.....	...do.....	-	-		
367901	Fabricated electron tube parts, except blanks.....	...do.....	-	-		
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).....	(NA)	1.3		
282140	Thermosetting resins.....	...do.....	(NA)	.9		
970099	All other materials and components, parts, containers, and sup- plies consumed.....	...do.....	(X)	59.2		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	...do.....	(X)	10.9		
	INDUSTRY 3678.--ELECTRONIC CONNECTORS					
	Materials, parts, containers, and supplies, total.....	...do.....	(X)	135.5		
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....	(NA)	3.4		
331012	Sheet and strip.....	...do.....				
331015	Structural shapes.....	...do.....				
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....	(NA)	2.1		
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....				
331050	All other stainless steel mill shapes and forms.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	1.5	2.9		
335791	Aluminum content.....	Million lb.....	(NA)			
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	(D)	(D)		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	10.5	7.9		
335143	Plate, sheet, and strip, including military cups and discs...	...do.....	13.3	13.1		
335152	Pipe and tube.....	...do.....	(D)	(D)		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	(D)	(D)		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	...do.....	3.0	2.0		
335008	All other aluminum mill shapes and forms.....	...do.....	4.6	3.7		
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.....	-	-		
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	1.9		
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)		
339915	Metal powders.....	...do.....	-	-		
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	-	-		
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....	-	-		
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	-	-		
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	-	-		
367410	Monolithic (solid-state) integrated circuits.....	...do.....	(X)	-		
281995	Silicon, hyperpure.....	Kilograms.....	-	-		
333977	Germanium.....	1,000 lb.....	-	-		
260091	Paper and paperboard containers.....	...do.....	(X)	1.9		
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb.....	(D)	(D)		
335691	Tantalum mill products.....	1,000 lb.....	-	-		
335693	Molybdenum, rolled, drawn, or extruded.....	...do.....	-	-		
335733	Tungsten wire.....	Million meters.....	-	-		

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3678.--ELECTRONIC CONNECTORS--Continued			
	Materials, parts, containers, and supplies--Continued			
	Glass and glass products:			
322921	Tube blanks.....	Million units.....	-	-
320311	Other than tube blanks.....	.....	(X)	.1
367901	Fabricated electron tube parts, except blanks.....	.....	-	-
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).....	2.7	3.8
282140	Thermosetting resins.....	..do.....	6.9	5.3
970099	All other materials and components, parts, containers, and sup- plies consumed.....	.....	(X)	64.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	18.0
	INDUSTRY 3679.--ELECTRONIC COMPONENTS, N.E.C.			
	Materials, parts, containers, and supplies, total.....	.....	(X)	1,310.9
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	5.0	2.8
331012	Sheet and strip.....	..do.....	28.9	8.1
331015	Structural shapes.....	..do.....	(Z)	(Z)
331017	Wire and wire products.....	..do.....	3.6	1.2
331019	All other carbon steel mill shapes and forms.....	..do.....	1.9	1.3
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....	.5	.4
331029	All other alloy steel mill shapes and forms.....	..do.....	14.2	8.9
	Stainless steel:			
331033	Sheet and strip.....	..do.....	3.2	5.7
331050	All other stainless steel mill shapes and forms.....	..do.....	1.0	2.6
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	(NA)	16.7
335791	Aluminum content.....	Million lb.....	(NA)	
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction only).....	..do.....	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	3.7	4.1
335143	Plate, sheet, and strip, including military cups and discs.....	..do.....	4.9	7.3
335152	Pipe and tube.....	..do.....	1.5	2.6
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....	9.9	5.9
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	11.3	7.3
335008	All other aluminum mill shapes and forms.....	..do.....	6.0	3.3
	Castings (rough and semifinished): <sup>1</sup>			
332045	Steel.....	1,000 s. tons.....	.7	2.0
336100	Aluminum and aluminum-base alloy.....	Million lb.....	3.1	3.5
336200	Copper and copper-base alloy.....	..do.....	.4	.3
339915	Metal powders.....	..do.....	(D)	(D)
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(NA)	2.4
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....		
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	12.5	5.2
367408	Solid state, semiconductors <sup>1</sup> .....	..do.....	126.2	28.3
367410	Monolithic (solid-state) integrated circuits.....	.....	(X)	7.4
281995	Silicon, hyperpure.....	Kilograms.....	(NA)	3.0
333977	Germanium.....	1,000 lb.....	-	-
260091	Paper and paperboard containers.....	.....	(X)	8.7
335616	Nickel and nickel-base alloy mill shapes and forms.....	Million lb.....	.8	3.0
335691	Tantalum mill products.....	1,000 lb.....	(D)	(D)
335693	Molybdenum, rolled, drawn, or extruded.....	..do.....	(D)	(D)
335733	Tungsten wire.....	Million meters.....	(D)	(D)
	Glass and glass products:			
322921	Tube blanks.....	Million units.....	(D)	(D)
320311	Other than tube blanks.....	.....	(X)	3.0
367901	Fabricated electron tube parts, except blanks.....	.....	(X)	(D)
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis).....	16.2	6.0
282140	Thermosetting resins.....	..do.....	15.7	11.9
970099	All other materials and components, parts, containers, and sup- plies consumed.....	.....	(X)	947.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	184.1

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
 (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).

<sup>2</sup>Excludes quantities produced and consumed in the same establishment.

<sup>3</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3651.--RADIO AND TV RECEIVING SETS						
	Purchased fuels and electric energy.....		(X)	11.8	(X)	(NA)
	Purchased fuels, total.....		(X)	2.8	(X)	(NA)
121005	Coal.....	1,000 s. tons....	12.9	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	187.0	.9	(NA)	(NA)
291141	Distillate.....	..do.....	167.2	.8	(NA)	(NA)
291151	Residual.....	..do.....	19.9	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.0	1.7	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	783.9	9.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.1	-	(NA)	(NA)
INDUSTRY 3652.--PHONOGRAPH RECORDS AND PRERECORDED TAPES						
	Purchased fuels and electric energy.....		(X)	5.3	(X)	(NA)
	Purchased fuels, total.....		(X)	2.0	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	127.0	.6	(NA)	(NA)
291141	Distillate.....	..do.....	90.1	.4	(NA)	(NA)
291151	Residual.....	..do.....	36.9	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.1	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	282.4	3.3	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.3	-	(NA)	(NA)
INDUSTRY 3661.--TELEPHONE AND TELEGRAPH APPARATUS						
	Purchased fuels and electric energy.....		(X)	20.6	(X)	11.9
	Purchased fuels, total.....		(X)	7.0	(X)	4.1
121005	Coal.....	1,000 s. tons....	55.2	.6	272.2	1.3
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	213.0	1.1	243.4	.6
291141	Distillate.....	..do.....	72.5	.4	69.5	.2
291151	Residual.....	..do.....	140.6	.7	173.9	.4
131300	Natural gas.....	Billion ft <sup>3</sup> .....	10.3	5.0	4.6	1.7
960011	Other fuels.....		(X)	.1	(X)	.1
975000	Fuels, n.s.k.....		(X)	.2	(X)	.2
960012	Purchased electric energy.....	Million kWh.....	1,218.1	13.6	794.9	7.9
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	115.0	-
	Total energy used for heat and power.....	Bil. kWh equiv....	5.2	-	4.7	-
INDUSTRY 3662.--RADIO AND TV COMMUNICATION EQUIPMENT						
	Purchased fuels and electric energy.....		(X)	53.0	(X)	41.5
	Purchased fuels, total.....		(X)	10.0	(X)	8.2
121005	Coal.....	1,000 s. tons....	14.2	.2	21.5	.2
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	859.2	4.1	953.8	2.6
291141	Distillate.....	..do.....	391.5	1.9	321.4	1.0
291151	Residual.....	..do.....	467.7	2.2	632.4	1.6
131300	Natural gas.....	Billion ft <sup>3</sup> .....	9.4	5.0	4.4	3.1
960011	Other fuels.....		(X)	.7	(X)	.4
975000	Fuels, n.s.k.....		(X)	-	(X)	1.9
960012	Purchased electric energy.....	Million kWh.....	3,605.7	43.0	2,974.2	33.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	32.1	-
	Total energy used for heat and power.....	Bil. kWh equiv....	8.1	-	4.3	-

See footnotes at end of table.



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3671.--ELECTRON TUBES, RECEIVING TYPE						
	Purchased fuels and electric energy.....		(X)	2.8	(X)	(NA) <sup>a</sup>
	Purchased fuels, total.....		(X)	.7	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	.4	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	38.1	.2	(NA)	(NA)
291141	Distillate.....	...do.....	6.7	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	31.4	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.6	.4	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	171.2	2.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	.5	-	(NA)	(NA)
INDUSTRY 3672.--CATHODE RAY TELEVISION PICTURE TUBES						
	Purchased fuels and electric energy.....		(X)	8.2	(X)	(NA)
	Purchased fuels, total.....		(X)	2.8	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	6.8	.1	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	137.3	.4	(NA)	(NA)
291141	Distillate.....	...do.....	12.7	.1	(NA)	(NA)
291151	Residual.....	...do.....	124.6	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.8	1.9	(NA)	(NA)
960011	Other fuels.....		(X)	.3	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	541.3	5.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	1.8	-	(NA)	(NA)
INDUSTRY 3673.--ELECTRON TUBES, TRANSMITTING						
	Purchased fuels and electric energy.....		(X)	4.7	(X)	(NA)
	Purchased fuels, total.....		(X)	.8	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	70.7	.4	(NA)	(NA)
291141	Distillate.....	...do.....	22.7	.1	(NA)	(NA)
291151	Residual.....	...do.....	48.0	.3	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.5	.3	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	349.8	3.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	.6	-	(NA)	(NA)
INDUSTRY 3674.--SEMICONDUCTORS AND RELATED DEVICES						
	Purchased fuels and electric energy.....		(X)	18.1	(X)	(NA)
	Purchased fuels, total.....		(X)	3.5	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	279.8	1.4	(NA)	(NA)
291141	Distillate.....	...do.....	73.8	.4	(NA)	(NA)
291151	Residual.....	...do.....	206.0	1.0	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.4	1.4	(NA)	(NA)
960011	Other fuels.....		(X)	.3	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	1,452.4	14.6	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	3.3	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3675.--ELECTRONIC CAPACITORS; INDUSTRY 3676.-- ELECTRONIC RESISTORS; INDUSTRY 3677.--ELECTRONIC COILS AND TRANSFORMERS; INDUSTRY 3678.--ELECTRONIC CONNECTORS; and INDUSTRY 3679.--ELECTRONIC COMPONENTS, N.E.C.					
	Purchased fuels and electric energy.....		(X)	44.1	(X)	33.3
	Purchased fuels, total.....		(X)	11.3	(X)	8.4
121005	Coal.....	1,000 s. tons.....	30.2	.3	51.2	.5
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	956.7	3.9	561.6	1.9
291141	Distillate.....	...do.....	748.4	3.0	323.3	1.2
291151	Residual.....	...do.....	208.3	1.0	238.3	.7
131300	Natural gas.....	Billion ft <sup>3</sup> .....	6.4	3.6	3.7	2.5
960011	Other fuels.....	.....	(X)	.9	(X)	.6
975000	Fuels, n.s.k.....	.....	(X)	2.6	(X)	2.8
960012	Purchased electric energy.....	Million kWh.....	2,645.1	32.8	2,145.8	25.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(Z)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	7.9	-	4.1	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.





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# Miscellaneous Electrical Equipment and Supplies

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# EXPLANATORY TEXT

## MISCELLANEOUS ELECTRICAL EQUIPMENT AND SUPPLIES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

3691—Storage Batteries

3692—Primary Batteries, Dry and Wet

3693—Radiographic X-Ray, Fluoroscopic X-Ray, Therapeutic X-Ray, and Other X-Ray Apparatus and Tubes; Electromedical and Electrotherapeutic Apparatus\*

3694—Electrical Equipment for Internal Combustion Engines\*

3699—Electrical Machinery, Equipment, and Supplies, N.E.C.\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3691.—STORAGE BATTERIES

This industry comprises establishments primarily engaged in manufacturing storage batteries. For a detailed list of products of industry 3691, refer to table 6A, product codes 36911 13 to 36912 91.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard

\*Note that the "short title" for this industry is used throughout the report.

Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Storage Batteries Industry in 1972 totaled \$971 million. This included shipments of storage batteries (primary products) valued at \$939 million, shipments of other products (secondary products) valued at \$20 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of storage batteries (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 99 percent.

Shipments of storage batteries (primary products) from establishments classified in industry 3691 in 1972 represented 99 percent (coverage ratio) of these products valued at \$953 million shipped by all industries. In 1967, the coverage ratio was 97 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3691, these establishments accounted for 3 percent of value of shipments.

### INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET

This industry comprises establishments primarily engaged in manufacturing primary batteries, dry or wet. For a detailed list of products of industry 3692, refer to table 6A, product codes 36920 12 to 36920 95.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Primary Batteries, Dry and Wet, Industry in 1972 totaled \$348 million. This included shipments of primary batteries, dry and wet,



(primary products) valued at \$312 million, shipments of other products (secondary products) valued at \$17 million, and miscellaneous receipts (mainly resales) of \$19 million.

Shipments of primary batteries, dry and wet, (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent.

Shipments of primary batteries, dry and wet, (primary products) from establishments classified in industry 3692 in 1972 represented 98 percent (coverage ratio) of these products valued at \$317 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3692, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3693.—X-RAY APPARATUS AND TUBES** (Short Title)

This industry comprises establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research, and control applications.

This industry also includes establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus except electrotherapeutic lamp units for ultraviolet and infrared radiations (industry 3641).

Establishments primarily engaged in manufacturing radio receiving tubes are classified in industry 3671; television receiving cathode-ray tubes in industry 3672; and transmitting tubes in industry 3673.

For a detailed list of products of industry 3693, refer to table 6A, product codes 36930 19 to 36930 96.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

In 1972, the value of products shipped and miscellaneous receipts of establishments classified in the X-Ray Apparatus and Tubes Industry amounted to \$429 million, an increase of 84 percent compared with 1967.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard

Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

Value of shipments and other receipts of the X-Ray Apparatus and Tubes Industry in 1972 totaled \$444 million. This included shipments of X-ray apparatus and tubes (primary products) valued at \$353 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly resales) of \$73 million.

Shipments of X-ray apparatus and tubes (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent.

Shipments of X-ray apparatus and tubes (primary products) from establishments classified in industry 3693 in 1972 represented 92 percent (coverage ratio) of these products valued at \$383 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3693, these establishments accounted for 2 percent of value of shipments.

#### **INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT** (Short Title)

This industry comprises establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry include armatures, starting motors, alternators, and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors. For a detailed list of products of industry 3694, refer to table 6A, product codes 36941 11 to 36946 98.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Engine Electrical Equipment Industry in 1972 totaled \$2,035 million. This included shipments of engine electrical equipment (primary products) valued at \$1,546 million, shipments of other



products (secondary products) valued at \$420 million, and miscellaneous receipts (mainly resales) of \$69 million.

Shipments of engine electrical equipment (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 81 percent. Secondary products shipped by this industry in 1972 consisted mainly of motors and generators (\$83 million) and motor vehicle parts and accessories (\$164 million).

Shipments of engine electrical equipment (primary products) from establishments classified in industry 3694 in 1972 represented 87 percent (coverage ratio) of these products valued at \$1,781 million shipped by all industries. In 1967, the coverage ratio was 85 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3694, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3699.—ELECTRICAL EQUIPMENT AND SUPPLIES, N.E.C. (Short Title)**

This industry comprises establishments primarily engaged in manufacturing electrical machinery, equipment, and supplies, not elsewhere classified, such as appliance and extension cords, bells and chimes, and insert traps. For a detailed list of products of industry 3699, refer to table 6A, product codes 36992 11 to 36996 00.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Electrical Equipment and Supplies, N.E.C., Industry in 1972 totaled \$520 million. This included shipments of electrical equipment and supplies, n.e.c., (primary products) valued at \$436 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts (mainly resales) of \$30 million.

Shipments of electrical equipment and supplies, n.e.c., (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent.

Shipments of electrical equipment and supplies, n.e.c., (primary products) from establishments classified in industry 3699 in 1972 represented 52 percent (coverage ratio) of these products valued at \$845 million shipped by all industries. In 1967, the coverage ratio was 50 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3699, these establishments accounted for 27 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3691.--STORAGE BATTERIES															
1972 Census .....	213	121	22.2	209.6	18.0	36.0	159.4	478.6	513.6	971.3	30.8	(NA)	133.9	98	99
1971 ASM .....	(NA)	(NA)	21.1	190.2	16.9	34.4	142.6	404.3	416.9	828.2	29.5	274.0	120.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	20.8	172.0	16.5	33.6	128.6	370.5	412.5	769.8	20.7	251.1	125.2	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	19.9	165.3	15.7	33.0	122.8	324.9	378.6	697.9	15.1	201.3	110.9	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	19.0	147.5	15.0	30.6	108.4	283.8	349.6	633.7	22.5	203.2	94.3	(NA)	(NA)
1967 Census .....	232	120	19.3	133.3	15.2	30.6	97.7	259.2	313.7	577.5	14.8	182.2	92.1	99	97
1966 ASM .....	(NA)	(NA)	19.4	131.5	14.7	30.7	94.7	284.3	338.6	615.7	*7.7	(NA)	93.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	19.3	127.7	14.8	30.6	91.8	296.5	331.8	615.2	21.1	(NA)	91.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	17.0	110.0	13.3	27.7	80.5	245.7	286.6	527.0	12.9	172.9	79.4	(NA)	(NA)
1963 Census .....	252	120	17.5	108.7	13.9	28.4	80.2	244.2	275.6	516.5	12.0	162.6	75.1	98	99
1962 ASM .....	(NA)	(NA)	16.2	99.4	12.5	29.2	74.8	210.9	245.5	452.1	9.6	155.5	65.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	15.4	89.5	11.7	27.1	67.3	178.5	245.8	423.4	8.4	(NA)	59.1	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	15.5	87.9	12.1	26.5	63.7	167.9	244.5	415.8	9.2	(NA)	55.4	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	16.1	88.3	12.6	27.7	66.1	180.8	244.2	417.4	6.8	(NA)	63.0	(NA)	(NA)
1958 Census .....	276	106	14.9	77.0	11.8	23.2	55.5	150.1	211.8	369.0	7.3	(NA)	52.1	99	100
INDUSTRY 3692.--PRIMARY BATTERIES, DRY AND WET															
1972 Census .....	48	31	8.4	64.6	6.8	13.5	46.4	221.6	130.5	348.1	7.2	(NA)	63.2	95	98
1971 ASM .....	(NA)	(NA)	9.4	67.4	7.6	15.5	49.4	225.2	129.8	350.5	7.2	88.3	54.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	9.4	63.7	7.5	14.9	46.4	198.6	130.8	329.5	10.8	88.1	51.4	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	10.8	67.2	8.8	17.2	47.8	207.0	138.1	340.5	9.1	78.3	53.8	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	11.3	65.1	9.1	18.0	46.3	197.1	132.2	330.8	7.8	73.7	47.7	(NA)	(NA)
1967 Census .....	49	36	11.0	61.0	8.9	17.6	43.2	188.7	122.0	307.6	20.2	74.8	45.4	97	86
1966 ASM .....	(NA)	(NA)	10.4	55.5	8.3	16.5	39.8	167.4	114.8	277.0	5.9	(NA)	42.0	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	8.9	46.7	6.9	14.2	32.6	139.8	97.9	233.1	2.6	(NA)	34.0	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	8.3	41.3	6.5	13.1	28.8	123.0	84.3	209.0	3.2	46.4	27.5	(NA)	(NA)
1963 Census .....	46	29	8.5	40.6	6.8	13.6	29.0	113.8	80.3	195.3	4.1	46.2	30.0	96	91
1962 ASM .....	(NA)	(NA)	8.3	39.0	6.3	13.0	25.2	109.2	86.4	194.3	3.1	41.1	28.1	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	8.0	36.8	6.0	12.2	24.1	96.9	75.4	170.4	2.4	(NA)	24.7	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	8.4	36.7	6.6	12.7	24.6	94.0	69.2	163.8	3.4	(NA)	23.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	8.9	37.3	7.2	14.3	27.1	96.7	67.1	162.2	*1.9	(NA)	23.3	(NA)	(NA)
1958 Census .....	42	29	8.1	34.0	6.5	13.2	24.5	75.4	59.5	138.2	2.3	(NA)	22.1	99	98
INDUSTRY 3693.--X-RAY APPARATUS AND TUBES															
1972 Census .....	104	54	12.1	120.8	6.9	14.1	55.5	311.3	147.2	443.8	8.0	(NA)	106.9	95	92
1971 ASM .....	(NA)	(NA)	9.2	85.9	4.9	9.6	38.1	208.3	126.6	324.2	4.6	52.6	80.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	8.4	72.7	4.9	9.3	32.6	152.2	102.5	252.8	3.6	51.6	67.5	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	8.8	71.2	4.8	9.0	30.6	151.4	109.7	253.9	3.8	(S)	62.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	8.0	69.1	4.5	8.6	29.4	141.2	111.8	249.3	*5.6	(S)	55.8	(NA)	(NA)
1967 Census .....	82	41	7.9	63.3	4.3	8.7	26.3	135.7	104.0	233.2	11.2	(S)	56.1	93	86
1966 ASM .....	(NA)	(NA)	8.1	61.7	4.6	9.5	28.9	133.4	100.1	222.4	3.5	(NA)	51.9	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.2	47.6	3.5	7.0	21.3	100.2	72.8	164.2	2.1	(NA)	37.4	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	5.8	42.7	3.2	6.6	19.6	92.1	57.9	149.2	*2.3	19.3	31.1	(NA)	(NA)
1963 Census .....	58	30	6.2	43.8	3.4	6.9	20.1	86.5	56.9	143.7	2.1	17.3	30.0	83	80
1962 ASM .....	(NA)	(NA)	6.2	41.1	3.8	7.9	18.5	76.2	53.2	127.1	1.2	15.7	32.6	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	6.4	37.7	3.6	7.4	16.8	67.2	50.0	116.3	1.1	(NA)	29.1	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	6.1	35.4	3.4	7.2	16.2	67.4	47.2	110.7	.8	(NA)	28.3	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	5.8	32.6	3.2	6.8	15.2	60.1	42.4	101.9	1.1	(NA)	25.0	(NA)	(NA)
1958 Census .....	126	33	5.3	30.7	3.0	5.9	14.3	58.4	35.7	95.1	1.4	(NA)	21.9	84	82
INDUSTRY 3694.--ENGINE ELECTRICAL EQUIPMENT															
1972 Census .....	290	143	57.9	591.4	47.6	96.8	451.7	1,212.6	855.0	2,035.0	30.7	(NA)	245.1	79	87
1971 ASM .....	(NA)	(NA)	57.6	534.2	46.8	92.6	399.9	1,087.7	870.0	1,986.0	40.4	543.3	251.4	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	58.4	489.6	46.4	93.1	359.4	993.3	792.4	1,767.3	*64.0	520.1	269.0	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	51.9	421.4	42.0	84.4	311.8	886.5	645.7	1,510.6	36.6	465.2	201.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	53.7	433.0	43.6	88.9	324.4	871.9	637.3	1,516.3	40.1	471.5	169.8	(NA)	(NA)
1967 Census .....	269	132	55.4	387.4	44.2	86.3	286.8	766.0	598.7	1,364.7	46.0	410.3	177.0	81	85
1966 ASM .....	(NA)	(NA)	52.3	362.2	42.0	87.7	272.2	735.2	620.8	1,342.5	38.4	(NA)	167.5	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	42.8	287.6	35.1	73.1	216.0	605.1	481.0	1,073.7	20.4	(NA)	129.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	38.8	251.8	31.4	63.6	184.8	526.9	400.7	925.5	19.6	272.3	108.4	(NA)	(NA)
1963 Census .....	182	98	40.6	250.2	32.7	66.9	184.4	496.7	398.0	900.7	15.5	258.5	99.8	93	81
1962 ASM .....	(NA)	(NA)	43.6	272.6	35.3	71.8	193.0	534.5	382.4	905.0	22.0	249.1	113.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	40.5	236.9	31.9	61.3	157.9	449.2	311.2	766.4	18.7	(NA)	98.8	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	42.9	239.3	33.9	65.7	164.8	470.7	331.0	799.4	13.9	(NA)	103.8	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	41.3	236.0	32.6	66.5	165.1	473.5	323.0	782.5	12.1	(NA)	111.5	(NA)	(NA)
1958 Census .....	157	89	38.1	196.0	29.5	56.4	135.8	353.5	248.1	606.5	8.9	(NA)	83.4	87	84

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3699.--ELECTRICAL EQUIPMENT AND SUPPLIES, N.E.C.															
1972 Census.....	998	192	20.0	135.4	15.4	28.6	84.5	274.4	251.0	519.5	16.7	(NA)	83.0	91	52
1971 ASM.....	(NA)	(NA)	18.4	125.9	13.3	25.9	72.2	222.1	190.4	411.4	12.6	146.8	65.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	17.9	111.8	12.9	24.7	65.2	228.2	175.3	393.2	10.5	143.2	64.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	*21.9	*134.3	*15.6	*30.1	*75.9	*294.6	*180.7	*470.8	*30.6	151.1	*73.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	18.1	103.9	13.2	25.3	59.9	203.3	161.7	363.1	*33.4	122.2	53.7	(NA)	(NA)
1967 Census.....	538	128	13.6	70.0	11.1	20.2	45.2	144.4	147.0	290.8	11.5	63.9	41.8	93	50
1966 ASM.....	(NA)	(NA)	16.6	84.7	13.4	25.8	53.3	168.2	158.2	319.3	*8.1	(NA)	45.1	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	13.3	67.1	10.6	21.0	42.6	126.8	120.4	245.6	8.0	(NA)	30.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	10.8	56.3	8.2	16.7	35.4	100.8	94.6	192.4	*3.9	51.8	23.4	(NA)	(NA)
1963 Census.....	350	106	10.9	51.2	8.5	16.5	33.4	101.2	89.0	190.0	3.3	48.7	24.3	90	49
1962 ASM.....	(NA)	(NA)	11.6	53.3	8.8	16.4	31.8	93.7	96.6	189.3	*2.3	44.3	24.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	12.0	52.5	9.2	18.0	32.9	93.8	86.2	179.5	*1.6	(NA)	22.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.6	48.7	9.1	17.5	30.9	91.5	82.6	172.6	1.4	(NA)	22.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.9	43.7	8.5	16.7	28.0	79.9	90.2	171.8	(S)	(NA)	20.6	(NA)	(NA)
1958 Census.....	259	99	10.3	39.3	8.2	15.8	26.3	73.6	89.8	165.4	1.4	(NA)	22.4	91	54

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3691	Industry 3692	Industry 3693	Industry 3694	Industry 3699
1972.....	138	30	94	265	969
1967.....	154	32	78	239	528
1963.....	169	26	56	163	245

(NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3691.--STORAGE BATTERIES											
1972 Census.....	9,441	(NA)	81	2,000	4.43	.52	.74	(NA)	21,558	44	13.29
1971 ASM.....	9,014	12,980	80	2,036	4.15	.50	.73	.33	19,161	47	11.75
1970 ASM.....	8,269	12,070	79	2,036	3.83	.54	.76	.33	17,813	46	11.03
1969 ASM.....	8,307	10,120	79	2,102	3.72	.54	.78	.29	16,327	51	9.85
1968 ASM.....	7,763	10,690	79	2,040	3.54	.55	.78	.32	14,937	52	9.27
1967 Census.....	6,907	9,441	78	2,026	3.19	.54	.77	.32	13,430	51	8.47
1966 ASM.....	6,792	(NA)	76	2,082	3.09	.55	.76	(NA)	14,684	46	9.26
1965 ASM.....	6,628	(NA)	77	2,063	3.00	.54	.75	(NA)	15,387	43	9.70
1964 ASM.....	6,478	10,170	79	2,081	2.90	.54	.75	.33	14,472	45	8.86
1963 Census.....	6,207	9,290	79	2,051	2.82	.53	.74	.31	13,942	45	8.58
1962 ASM.....	6,118	9,600	77	2,329	2.56	.54	.76	.34	12,976	47	7.22
1961 ASM.....	5,803	(NA)	76	2,314	2.48	.58	.79	(NA)	11,574	50	6.58
1960 ASM.....	5,660	(NA)	78	2,198	2.40	.59	.80	(NA)	10,816	52	6.33
1959 ASM.....	5,498	(NA)	79	2,189	2.39	.59	.80	(NA)	11,258	49	6.53
1958 Census.....	5,157	(NA)	79	1,969	2.39	.57	.78	(NA)	10,055	51	6.47

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3692.--PRIMARY BATTERIES, DRY AND WET											
1972 Census.....	7,690	(NA)	81	1,985	3.44	.37	.56	(NA)	26,380	29	16.40
1971 ASM.....	7,170	9,390	81	2,039	3.19	.37	.56	.25	23,957	30	14.53
1970 ASM.....	6,777	9,370	80	1,987	3.21	.40	.59	.26	21,128	32	13.33
1969 ASM.....	6,222	7,250	81	1,955	2.78	.41	.60	.23	19,167	33	12.03
1968 ASM.....	5,761	6,520	81	1,978	2.57	.40	.60	.22	17,442	33	10.95
1967 Census.....	5,545	6,800	81	1,978	2.45	.40	.59	.24	17,155	32	10.72
1966 ASM.....	5,324	(NA)	79	2,001	2.40	.41	.62	(NA)	16,041	33	10.12
1965 ASM.....	5,270	(NA)	77	2,068	2.30	.42	.62	(NA)	15,780	33	9.87
1964 ASM.....	5,001	5,590	79	2,023	2.20	.40	.60	.22	14,907	34	9.38
1963 Census.....	4,789	5,440	80	2,005	2.13	.41	.62	.24	13,421	36	8.36
1962 ASM.....	4,690	4,950	76	2,062	1.94	.44	.65	.21	13,119	36	8.41
1961 ASM.....	4,601	(NA)	75	2,031	1.98	.44	.66	(NA)	12,110	38	7.97
1960 ASM.....	4,349	(NA)	78	1,943	1.93	.42	.65	(NA)	11,151	39	7.38
1959 ASM.....	4,189	(NA)	81	1,979	1.89	.41	.64	(NA)	10,852	39	6.76
1958 Census.....	4,203	(NA)	80	2,037	1.85	.43	.68	(NA)	9,317	45	5.70
INDUSTRY 3693.--X-RAY APPARATUS AND TUBES											
1972 Census.....	9,983	(NA)	57	2,043	3.94	.33	.60	(NA)	25,727	39	22.07
1971 ASM.....	9,337	5,720	53	1,959	3.97	.39	.66	.16	22,641	41	21.70
1970 ASM.....	8,655	6,140	58	1,898	3.51	.41	.69	.20	18,119	48	16.37
1969 ASM.....	8,091	(S)	55	1,875	3.40	.43	.71	(S)	17,205	47	16.82
1968 ASM.....	8,638	(S)	56	1,911	3.42	.45	.73	(S)	17,650	49	16.42
1967 Census.....	8,013	(S)	54	2,023	3.02	.45	.72	(S)	17,177	47	15.60
1966 ASM.....	7,617	(NA)	57	2,065	3.04	.45	.73	(NA)	16,469	46	14.04
1965 ASM.....	7,677	(NA)	56	2,000	3.04	.44	.73	(NA)	16,161	48	14.31
1964 ASM.....	7,362	3,330	55	2,062	2.97	.39	.67	.13	15,879	46	13.95
1963 Census.....	7,065	2,790	55	2,030	2.91	.40	.70	.12	13,952	51	12.54
1962 ASM.....	6,629	2,530	61	2,079	2.34	.42	.74	.12	12,290	54	9.65
1961 ASM.....	5,891	(NA)	56	2,056	2.27	.43	.75	(NA)	10,500	56	9.08
1960 ASM.....	5,803	(NA)	56	2,118	2.25	.43	.75	(NA)	11,049	53	9.36
1959 ASM.....	5,621	(NA)	55	2,125	2.24	.42	.74	(NA)	10,362	54	8.84
1958 Census.....	5,792	(NA)	57	1,967	2.42	.38	.70	(NA)	11,019	53	9.90
INDUSTRY 3694.--ENGINE ELECTRICAL EQUIPMENT											
1972 Census.....	10,214	(NA)	82	2,033	4.66	.42	.71	(NA)	20,943	49	12.53
1971 ASM.....	9,274	9,430	81	1,979	4.32	.44	.71	.27	18,884	49	11.75
1970 ASM.....	8,384	8,910	80	2,006	3.86	.45	.73	.29	17,009	49	10.67
1969 ASM.....	8,119	8,960	81	2,010	3.69	.43	.71	.31	17,081	48	10.50
1968 ASM.....	8,063	8,780	81	2,039	3.65	.42	.71	.31	16,236	50	9.81
1967 Census.....	6,993	7,410	80	1,952	3.32	.44	.72	.30	13,827	51	8.88
1966 ASM.....	6,924	(NA)	80	2,090	3.10	.46	.73	(NA)	14,055	49	8.38
1965 ASM.....	6,721	(NA)	82	2,084	2.96	.45	.72	(NA)	14,140	48	8.28
1964 ASM.....	6,493	7,020	81	2,030	2.90	.43	.71	.29	13,586	48	8.28
1963 Census.....	6,169	6,370	81	2,046	2.76	.44	.72	.29	12,245	50	7.42
1962 ASM.....	6,252	5,710	81	2,034	2.69	.42	.72	.28	12,260	51	7.44
1961 ASM.....	5,850	(NA)	79	1,920	2.57	.41	.72	(NA)	11,096	53	7.32
1960 ASM.....	5,575	(NA)	79	1,942	2.51	.41	.71	(NA)	10,965	51	7.16
1959 ASM.....	5,717	(NA)	79	2,040	2.48	.41	.71	(NA)	11,469	50	7.12
1958 Census.....	5,140	(NA)	77	1,910	2.41	.41	.73	(NA)	9,273	55	6.27
INDUSTRY 3699.--ELECTRICAL EQUIPMENT AND SUPPLIES, N.E.C.											
1972 Census.....	6,770	(NA)	77	1,857	2.95	.48	.74	(NA)	13,720	49	9.59
1971 ASM.....	6,842	7,980	72	1,947	2.79	.46	.77	.36	12,071	57	8.58
1970 ASM.....	6,246	8,000	72	1,915	2.64	.45	.73	.36	12,749	49	9.24
1969 ASM.....	6,132	6,900	71	1,929	2.52	.38	.67	.32	13,452	46	9.79
1968 ASM.....	5,740	6,750	73	1,917	2.37	.45	.73	.34	11,232	51	8.04
1967 Census.....	5,147	4,700	82	1,820	2.24	.51	.75	.22	10,618	48	7.15
1966 ASM.....	5,095	(NA)	81	1,917	2.07	.50	.76	(NA)	10,125	50	6.53
1965 ASM.....	5,026	(NA)	80	1,971	2.03	.49	.76	(NA)	9,499	53	6.05
1964 ASM.....	5,210	4,800	76	2,027	2.12	.49	.78	.27	9,330	56	6.03
1963 Census.....	4,689	4,470	78	1,943	2.02	.47	.74	.26	9,267	51	6.14
1962 ASM.....	4,614	3,820	76	1,860	1.94	.51	.79	.23	8,111	57	5.72
1961 ASM.....	4,374	(NA)	77	1,959	1.82	.48	.77	(NA)	7,821	56	5.21
1960 ASM.....	4,194	(NA)	79	1,925	1.76	.48	.76	(NA)	7,881	53	5.21
1959 ASM.....	4,013	(NA)	78	1,961	1.68	.52	.78	(NA)	7,332	55	4.79
1958 Census.....	3,835	(NA)	80	1,928	1.67	.54	.78	(NA)	7,172	53	4.66

(NA) Not available.

(S) Withheld because the data did not meet publication standards.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3691-- STORAGE BATTERIES</b>													
UNITED STATES. . . . .	213	121	22.2	209.6	18.0	36.0	159.4	478.6	513.6	971.3	30.8	19.3	259.2
NORTHEAST REGION . . . . .	44	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	68.7
NEW ENGLAND DIVISION . . . . .	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.6
VERMONT. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	30	19	4.5	45.0	3.5	7.1	34.3	115.2	97.3	209.0	4.4	4.9	61.1
NEW YORK . . . . .	7	4	.3	3.0	.2	.5	2.2	3.7	8.4	11.8	(D)	.3	2.1
NEW JERSEY . . . . .	8	5	1.2	11.9	1.0	1.9	9.7	28.2	26.0	53.7	(D)	EE	(D)
PENNSYLVANIA . . . . .	15	10	3.0	30.0	2.3	4.8	22.3	83.2	62.8	143.5	2.8	FF	(D)
NORTH CENTRAL REGION . . . . .	51	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.1	103.7
EAST NORTH CENTRAL DIVISION. . . . .	33	21	5.1	50.4	4.2	8.2	39.9	119.7	124.4	242.3	3.7	4.6	75.0
OHIO . . . . .	4	3	.3	2.3	.2	.4	1.6	3.7	8.1	11.4	.4	.2	1.6
INDIANA. . . . .	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	11	5	1.1	10.0	.8	1.6	7.2	26.1	33.2	58.4	.8	1.4	24.3
MICHIGAN . . . . .	7	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	6.8
WISCONSIN. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST NORTH CENTRAL DIVISION. . . . .	18	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	28.7
MINNESOTA. . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI . . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
KANSAS . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION . . . . .	64	36	6.7	59.1	5.6	11.1	44.1	125.8	152.7	270.4	12.4	4.0	48.8
SOUTH ATLANTIC DIVISION. . . . .	29	17	3.3	28.2	2.7	5.4	20.5	62.9	66.5	125.8	4.3	2.3	26.6
DELAWARE . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CAROLINA . . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
GEORGIA. . . . .	7	4	.9	8.1	.7	1.5	6.3	22.2	21.0	42.7	1.1	.5	7.9
FLORIDA. . . . .	12	7	1.5	12.0	1.3	2.5	8.5	24.8	23.7	46.2	2.4	.8	7.3
EAST SOUTH CENTRAL DIVISION. . . . .	12	7	1.1	10.3	1.0	1.9	7.8	19.3	34.0	52.0	.7	.6	7.6
KENTUCKY . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE. . . . .	6	3	.3	2.7	.3	.6	2.3	7.5	12.2	19.1	.2	.88	(D)
MISSISSIPPI. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	23	12	2.3	20.6	1.9	3.9	15.8	43.6	52.2	92.7	7.4	1.1	14.5
LOUISIANA. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS. . . . .	18	8	1.7	13.8	1.4	2.9	10.6	30.7	34.4	61.2	7.1	CC	(D)
WEST REGION. . . . .	54	24	2.9	27.4	2.3	4.7	20.4	64.8	72.1	132.5	5.5	2.5	38.0
MOUNTAIN DIVISION. . . . .	6	3	.2	1.4	.1	.3	.9	3.2	2.6	5.5	.8	.3	3.2
PACIFIC DIVISION . . . . .	48	21	2.7	25.9	2.2	4.5	19.6	61.6	69.6	127.0	4.7	2.1	34.8
OREGON . . . . .	7	4	.4	3.5	.3	.6	2.4	7.6	10.9	18.0	.4	AA	(D)
CALIFORNIA . . . . .	34	17	2.3	22.3	1.9	3.9	17.0	53.4	57.9	107.6	4.3	1.9	31.4
<b>3692-- PRIMARY BATTERIES, DRY AND WET</b>													
UNITED STATES. . . . .	48	31	8.4	64.6	6.8	13.5	46.4	221.6	130.5	348.1	7.2	11.0	188.7
NORTHEAST REGION . . . . .	14	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW ENGLAND DIVISION . . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
VERMONT. . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MIDDLE ATLANTIC DIVISION . . . . .	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	24.6
NEW YORK . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW JERSEY . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CENTRAL REGION . . . . .	16	12	4.0	30.3	3.2	6.3	22.2	97.9	56.9	152.8	3.2	5.2	86.6
EAST NORTH CENTRAL DIVISION. . . . .	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN. . . . .	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
IOWA . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSOURI . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH ATLANTIC DIVISION. . . . .	11	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CAROLINA . . . . .	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
TENNESSEE. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
<b>3693-- X-RAY APPARATUS AND TUBES</b>													
UNITED STATES. . . . .	104	54	12.1	120.8	6.9	14.1	55.5	311.3	147.2	443.8	8.0	7.9	135.7
NORTHEAST REGION . . . . .	43	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW ENGLAND DIVISION . . . . .	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS. . . . .	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION . . . . .	31	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	24.0
NEW YORK . . . . .	19	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW JERSEY . . . . .	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees¹	Value added by manufacture
	Total	With 20 employees or more	Number¹	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3693-- X-RAY APPARATUS AND TUBES--CON.													
NORTH CENTRAL REGION . . . . .	25	15	6.D	61.7	3.5	6.8	30.2	161.1	83.9	241.4	4.9	4.1	79.5
EAST NRTH CENTRAL DIVISION. . .	22	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . .	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WISCONSIN. . . . .	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NRTH CENTRAL DIVISION. . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MINNESOTA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION . . . . .	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SDUTH ATLANTIC DIVISION. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST REGION. . . . .	25	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.8
PACIFIC DIVISION . . . . .	22	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.8
CALIFORNIA . . . . .	17	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3694-- ENGINE ELECTRICAL EQUIPMENT													
UNITED STATES. . . . .	290	143	57.9	591.4	47.6	96.8	451.7	1 212.6	855.0	2 035.0	30.7	55.4	766.0
NORTHEAST REGION . . . . .	71	42	9.1	69.0	7.2	14.6	46.8	148.4	111.4	260.3	6.9	8.3	97.0
NEW ENGLAND DIVISION . . . . .	22	13	2.9	20.7	2.2	4.2	12.8	38.0	40.0	78.3	2.1	2.8	32.2
MASSACHUSETTS. . . . .	16	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CONNECTICUT. . . . .	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION . . . . .	49	29	6.2	48.2	5.0	10.4	34.0	110.3	71.4	182.0	4.8	5.5	64.8
NEW YORK . . . . .	21	14	4.5	35.8	3.6	7.4	24.5	85.0	50.1	136.0	3.4	2.0	26.4
NEW JERSEY . . . . .	10	4	.7	4.3	.5	1.3	3.3	11.0	7.8	18.5	1.1	2.0	22.8
PENNSYLVANIA . . . . .	18	11	1.0	8.1	.9	1.7	6.2	14.3	13.5	27.5	.3	1.4	15.6
NRTH CENTRAL REGION . . . . .	104	62	43.8	489.5	36.3	73.4	381.2	993.9	690.6	1 653.6	21.8	43.6	633.8
EAST NRTH CENTRAL DIVISION. . .	81	50	42.4	478.7	35.1	71.2	373.1	968.0	659.1	1 596.6	21.1	39.6	570.9
OHIO . . . . .	14	9	7.4	67.5	5.7	10.6	46.3	130.8	76.2	201.0	3.1	6.4	104.8
INDIANA. . . . .	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINDIS . . . . .	23	9	2.1	17.7	1.6	3.2	11.7	35.5	34.0	68.0	1.0	3.1	37.3
MICHIGAN . . . . .	22	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.3	138.1
WISCONSIN. . . . .	11	9	1.5	11.7	1.2	2.2	7.5	21.7	13.9	35.0	1.1	1.5	12.3
WEST NRTH CENTRAL DIVISION. . .	23	12	1.4	10.8	1.3	2.2	8.2	25.9	31.5	57.0	.7	CC	(D)
IDWA . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MISSDURI . . . . .	10	7	.6	3.9	.5	.9	2.5	11.3	15.4	26.0	.4	(NA)	(NA)
SOUTH REGION . . . . .	62	21	3.4	20.8	3.0	6.4	15.9	45.7	38.5	82.7	1.4	2.0	18.7
SOUTH ATLANTIC DIVISION. . . . .	32	7	.9	6.3	.8	1.8	4.9	17.0	14.0	30.5	.3	CC	(D)
MARYLAND . . . . .	3	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CARLINA . . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
EAST SDUTH CENTRAL DIVISION. . .	16	9	2.1	12.0	1.9	4.0	9.2	24.4	20.4	43.7	.9	1.3	10.9
KENTUCKY . . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
TENNESSEE. . . . .	6	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SDUTH CENTRAL DIVISION. . E2	14	5	.4	2.5	.3	.6	1.8	4.3	4.1	8.5	.2	AA	(D)
TEXAS. . . . .	8	3	.3	2.1	.3	.5	1.5	3.4	3.4	6.9	.2	.2	1.4
WEST REGION. . . . .	53	18	1.6	12.1	1.2	2.4	7.7	24.8	14.6	38.2	.5	1.5	16.6
MOUNTAIN DIVISION. . . . .	10	5	.3	2.1	.2	.5	1.4	4.7	3.9	8.3	.1	(NA)	(NA)
COLORADO . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	43	13	1.3	10.0	1.0	1.8	6.3	20.1	10.7	29.9	.4	EE	(D)
CALIFORNIA . . . . .	33	12	1.3	9.5	.9	1.8	5.9	19.4	10.2	28.7	.4	1.4	16.0
3699-- ELECTRICAL EQUIP., SUPPLIES, NEC													
UNITED STATES. . . . .	998	192	20.0	135.4	15.4	28.6	84.5	274.4	251.0	519.5	16.7	13.6	144.4
NORTHEAST REGION . . . . .	336	66	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	60.0
NEW ENGLAND DIVISION . . . . .	106	18	2.8	18.7	2.2	4.0	12.4	41.5	36.6	77.5	1.2	2.7	27.5
MAINE. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW HAMPSHIRE. . . . .	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MASSACHUSETTS. . . . .	56	6	.5	3.5	.4	.7	1.9	8.5	10.7	19.2	.3	88	(D)
RHODE ISLAND . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT. . . . .	34	4	.3	2.0	.2	.3	1.1	4.1	2.7	6.8	.1	.2	2.0
MIDDLE ATLANTIC DIVISION . . . E3	230	48	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	32.5
NEW YORK . . . . .	128	26	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	16.5
NEW JERSEY . . . . .	67	12	1.1	7.0	.8	1.5	4.4	12.2	9.9	21.4	1.0	.7	8.4
PENNSYLVANIA . . . . .	35	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	7.6
NORTH CENTRAL REGION . . . . .	254	72	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	53.2
EAST NORTH CENTRAL DIVISION. . E1	200	60	6.7	44.6	5.2	9.8	27.5	92.2	82.5	172.5	4.1	4.4	44.4
OHIO . . . . .	47	16	2.5	18.8	1.9	3.7	11.9	35.7	34.1	68.8	2.4	.7	12.2
INDIANA. . . . .	34	12	1.0	5.8	.8	1.5	3.6	11.1	11.5	22.3	.3	.9	7.0
ILLINOIS . . . . .	60	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.4
MICHIGAN . . . . .	37	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	8.2
WISCONSIN. . . . .	22	4	.4	2.1	.3	.5	1.3	4.7	3.4	8.1	.3	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . E2	54	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	8.8
MINNESOTA. . . . .	22	7	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSDURI . . . . .	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix. Explanation of Terms)

[illegible]

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent	E3--30 to 39 percent	E5--50 to 59 percent	E7--70 to 79 percent	E9--90 to 99 percent
E2--20 to 29 percent	E4--40 to 49 percent	E6--60 to 69 percent	E8--80 to 89 percent	E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix. Explanation of Terms)

Item	Storage batteries (SIC 3691)	Primary batteries, dry and wet (SIC 3692)	X-ray apparatus and tubes (SIC 3693)	Engine electrical equipment (SIC 3694)	Electrical equipment and supplies, n.e.c. (SIC 3699)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT	98	95	95	79	91
COVERAGE RATIO <sup>2</sup> . . . . . DO	99	98	92	87	
ESTABLISHMENTS, TOTAL . . . . . NUMBER	213	48	104	290	998
WITH 1 TO 19 EMPLOYEES . . . . . DO	92	17	50	147	806
WITH 20 TO 99 EMPLOYEES . . . . . DO	51	11	29	75	141
WITH 100 EMPLOYEES OR MORE . . . . . DO	70	20	25	68	51
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000	22.2	8.4	12.1	57.9	20.0
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS	209.6	64.6	120.8	591.4	135.4
PRODUCTION WORKERS:					
AVERAGE FOR YEAR . . . . . 1,000	18.0	6.8	6.9	47.6	15.4
MARCH . . . . . DO	17.2	6.9	6.6	47.3	14.6
MAY . . . . . DO	17.1	6.7	6.8	47.4	14.6
AUGUST . . . . . DO	18.2	6.7	7.1	46.5	15.6
NOVEMBER . . . . . DO	19.4	6.8	7.3	49.6	15.9
MAN-HOURS . . . . . MILLIONS	36.0	13.5	14.1	96.8	28.6
JANUARY-MARCH . . . . . DO	8.5	3.6	3.3	24.4	6.7
APRIL-JUNE . . . . . DO	8.6	3.5	3.5	24.4	7.4
JULY-SEPTEMBER . . . . . DO	8.9	3.0	3.5	23.0	6.9
OCTOBER-DECEMBER . . . . . DO	10.0	3.4	3.7	25.0	7.2
WAGES . . . . . MILLION DOLLARS	159.4	46.4	55.5	451.7	84.5
COST OF MATERIALS, ETC., TOTAL . . . . . DO	513.6	130.5	147.2	855.0	251.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . . DO	493.4	115.1	111.0	803.7	226.4
COST OF REALES . . . . . DO	6.3	12.7	31.9	31.1	16.1
FUELS CONSUMED . . . . . DO	4.3	.7	.7	4.5	1.2
PURCHASED ELECTRIC ENERGY . . . . . DO	9.3	1.7	1.7	9.7	4.6
CONTRACT WORK . . . . . DO	.2	.3	1.9	5.9	
VALUE OF SHIPMENTS, INCLUDING REALES . . . . . DO	971.3	348.1	443.8	2 035.0	519.5
VALUE OF REALES . . . . . DO	7.6	18.3	41.6	50.0	21.1
VALUE ADDED BY MANUFACTURE . . . . . DO	478.6	221.6	311.3	1 212.6	274.4
MANUFACTURERS' INVENTORIES:					
BEGINNING OF YEAR, TOTAL . . . . . DO	114.8	58.5	85.8	220.1	68.5
FINISHED PRODUCTS . . . . . DO	40.2	18.2	27.3	58.9	19.5
WORK IN PROCESS . . . . . DO	41.0	14.1	32.0	87.2	14.7
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO	33.6	26.2	26.5	74.1	36.7
END OF YEAR, TOTAL . . . . . DO	133.9	63.2	106.9	245.1	83.0
FINISHED PRODUCTS . . . . . DO	47.5	21.6	32.7	68.6	22.1
WORK IN PROCESS . . . . . DO	54.6	14.7	41.5	110.0	16.9
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO	31.8	26.9	32.7	66.5	44.0
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO	31.5	7.6	8.7	31.6	17.3
NEW PLANT AND EQUIPMENT, TOTAL . . . . . DO	30.8	7.2	8.0	30.7	16.7
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO	9.7	.8	2.5	3.1	3.9
NEW MACHINERY AND EQUIPMENT . . . . . DO	21.1	6.4	5.6	27.6	12.8
USED PLANT AND EQUIPMENT . . . . . DO	.7	.4	.7	.9	6.6

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3691-- STORAGE BATTERIES											
ESTABLISHMENTS, TOTAL. . . . .	213	22.2	209.6	18.0	36.0	159.4	478.6	513.6	971.3	30.8	133.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E0	46	.1	.8	.1	.1	.6	2.6	2.9	5.4	.2	.8
5 TO 9 EMPLOYEES . . . . . E7	22	.1	1.2	.1	.2	.9	3.1	3.2	6.3	.2	.9
10 TO 19 EMPLOYEES . . . . . E1	24	.3	2.4	.2	.5	1.5	4.6	7.6	12.6	.2	1.4
20 TO 49 EMPLOYEES . . . . .	31	.9	7.8	.7	1.5	4.8	20.2	22.8	42.4	4.2	5.8
50 TO 99 EMPLOYEES . . . . .	20	1.4	12.5	1.1	2.2	8.4	32.3	38.1	68.9	1.2	10.2
100 TO 249 EMPLOYEES . . . . .	43	6.9	63.4	5.7	11.9	50.3	155.2	195.0	339.2	12.6	46.1
250 TO 499 EMPLOYEES . . . . .	20	6.9	66.6	5.6	11.3	50.8	157.4	151.7	304.9	7.7	41.7
500 TO 999 EMPLOYEES . . . . .	6	5.5	54.8	4.5	8.2	42.2	103.3	92.2	191.5	4.6	27.0
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	55	.2	1.4	.2	.3	1.1	4.1	4.6	8.7	.2	1.3
3692-- PRIMARY BATTERIES, DRY AND WET											
ESTABLISHMENTS, TOTAL. . . . .	48	8.4	64.6	6.8	13.5	46.4	221.6	130.5	348.1	7.2	63.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	11	(Z)	.1	(Z)	(Z)	.1	.4	.2	.7	(Z)	.1
5 TO 9 EMPLOYEES . . . . .	3	(Z)	.5	(Z)	.1	.3	2.3	2.3	4.7	(Z)	9.6
10 TO 19 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES . . . . .	4	.2	1.4	.1	.2	.8	4.8	2.6	7.0	.5	1.3
50 TO 99 EMPLOYEES . . . . .	7	.6	4.2	.4	.8	2.6	8.9	4.4	13.1	.7	2.1
100 TO 249 EMPLOYEES . . . . .	6	.9	7.2	.7	1.5	5.0	23.5	16.4	39.5	.8	4.8
250 TO 499 EMPLOYEES . . . . .	10	3.7	26.9	3.1	6.2	20.7	91.7	53.9	145.3	2.9	16.4
500 TO 999 EMPLOYEES . . . . .	4	3.0	24.3	2.4	4.6	16.9	89.8	50.7	137.9	2.2	28.9
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	8	(Z)	.1	(Z)	(Z)	.1	.4	.3	.6	(Z)	.1
3693-- X-RAY APPARATUS AND TUBES											
ESTABLISHMENTS, TOTAL. . . . .	104	12.1	120.8	6.9	14.1	55.5	311.3	147.2	443.8	8.0	106.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	26	(Z)	.3	(Z)	(Z)	.2	.7	.4	1.1	(Z)	.3
5 TO 9 EMPLOYEES . . . . . E7	16	.1	.9	.1	.1	.5	1.6	1.0	2.6	(Z)	.6
10 TO 19 EMPLOYEES . . . . .	8	.1	1.0	.1	.1	.5	2.6	1.0	3.6	(Z)	.8
20 TO 49 EMPLOYEES . . . . . E1	21	.6	5.8	.4	.8	2.8	13.2	11.6	24.2	.5	5.9
50 TO 99 EMPLOYEES . . . . . E1	8	.6	4.9	.4	.8	2.8	9.9	7.2	16.9	.3	3.0
100 TO 249 EMPLOYEES . . . . .	15	2.1	20.2	1.3	2.5	10.2	59.2	29.6	87.6	1.6	22.0
250 TO 499 EMPLOYEES . . . . .	4	1.8	17.0	1.0	2.5	8.0	39.7	19.7	55.4	1.7	18.4
500 TO 999 EMPLOYEES . . . . .	4	6.7	70.7	3.7	7.3	30.6	184.3	76.8	252.4	3.9	56.1
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	31	.1	.8	.1	.1	.3	1.6	1.0	2.6	(Z)	.7
3694-- ENGINE ELECTRICAL EQUIPMENT											
ESTABLISHMENTS, TOTAL. . . . .	290	57.9	591.4	47.6	96.8	451.7	1 212.6	855.0	2 035.0	30.7	245.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	89	.1	1.2	.1	.2	.9	3.5	2.7	6.2	.2	.9
5 TO 9 EMPLOYEES . . . . . E6	29	.2	1.7	.1	.3	1.0	4.0	4.0	8.0	.2	1.3
10 TO 19 EMPLOYEES . . . . . E3	29	.4	2.8	.3	.6	2.1	4.2	3.7	7.9	.3	1.2
20 TO 49 EMPLOYEES . . . . . E1	48	1.6	9.7	1.3	2.5	7.0	18.2	15.1	33.3	.5	4.0
50 TO 99 EMPLOYEES . . . . . E2	27	1.8	12.2	1.5	2.9	8.4	21.9	18.2	39.4	.9	5.8
100 TO 249 EMPLOYEES . . . . .	31	5.0	32.6	4.1	8.3	23.0	66.0	68.0	135.6	3.8	18.8
250 TO 499 EMPLOYEES . . . . .	16	6.0	46.6	4.7	10.0	34.4	101.7	86.1	184.4	1.9	33.8
500 TO 999 EMPLOYEES . . . . .	11	7.2	53.3	5.7	10.6	37.3	104.9	91.6	192.5	4.3	37.3
1,000 TO 2,499 EMPLOYEES . . . . .	5	6.3	53.2	5.4	10.9	41.1	125.0	77.9	199.6	3.2	27.6
2,500 EMPLOYEES OR MORE. . . . .	5	29.4	378.0	24.3	50.4	296.5	763.2	487.7	1 228.0	15.6	114.4
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	91	.2	2.0	.2	.4	1.4	5.5	4.3	9.8	.2	1.5
3699-- ELECTRICAL EQUIP., SUPPLIES, NEC											
ESTABLISHMENTS, TOTAL. . . . . E2	998	20.0	135.4	15.4	28.6	84.5	274.4	251.0	519.5	16.7	83.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	503	.8	5.7	.7	1.1	3.2	13.5	12.1	25.6	.7	3.4
5 TO 9 EMPLOYEES . . . . . E8	192	1.3	8.4	.9	1.7	4.8	18.3	14.8	32.9	1.0	4.8
10 TO 19 EMPLOYEES . . . . . E6	111	1.5	10.4	1.1	2.1	5.9	20.3	17.8	38.1	1.6	6.0
20 TO 49 EMPLOYEES . . . . . E2	101	3.2	22.3	2.4	4.3	13.2	44.2	40.6	84.0	1.7	11.3
50 TO 99 EMPLOYEES . . . . . E2	41	2.7	17.9	2.1	3.7	10.4	34.5	31.3	64.0	2.8	10.5
100 TO 249 EMPLOYEES . . . . .	34	5.1	32.3	3.8	7.0	20.4	58.0	67.8	124.4	5.3	25.0
250 TO 499 EMPLOYEES . . . . .	16	5.5	38.4	4.3	8.5	26.5	85.7	66.5	150.4	3.6	22.1
500 TO 999 EMPLOYEES . . . . .	-	-	-	-	-	-	-	-	-	-	-
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	587	2.0	13.2	1.6	2.7	7.5	27.7	22.9	50.7	1.2	7.7

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3691	STORAGE BATTERIES										
	ENTIRE INDUSTRY . . . . .	213	22.2	209.6	18.0	36.0	159.4	478.6	513.6	971.3	30.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	210	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36911	STORAGE BATTERIES, SLI TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	108	15.4	153.0	12.7	25.4	120.6	333.7	398.0	717.7	22.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	102	14.4	145.0	11.9	24.1	114.9	324.7	383.6	694.7	21.6
36912	STORAGE BATTERIES (EXC. SLI) AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	32	5.8	48.9	4.5	9.1	33.5	127.0	97.0	218.3	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	28	5.1	41.9	4.0	7.9	29.2	108.2	84.3	187.1	6.5
3692	PRIMARY BATTERIES, DRY AND WET										
	ENTIRE INDUSTRY . . . . .	48	8.4	64.6	6.8	13.5	46.4	221.6	130.5	348.1	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	45	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3693	X-RAY APPARATUS AND TUBES										
	ENTIRE INDUSTRY . . . . .	104	12.1	120.8	6.9	14.1	55.5	311.3	147.2	443.8	8.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	100	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3694	ENGINE ELECTRICAL EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	290	57.9	591.4	47.6	96.8	451.7	1 212.6	855.0	2 035.0	30.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	267	40.1	378.3	32.3	64.1	277.4	783.6	492.6	1 251.3	19.9
36941	IGNITION HARNESS AND CABLE SETS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	37	4.4	30.2	3.6	7.0	22.4	57.8	65.3	120.3	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	30	2.9	17.0	2.3	4.4	11.4	30.3	30.9	60.4	1.3
36942	BATTERY CHARGING GENERATORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	28	26.7	321.9	22.6	46.9	258.3	658.5	406.9	1 047.0	15.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	12	2.3	17.9	2.0	4.3	14.5	21.9	25.5	46.3	3.3
36943	CRANKING MOTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	19	6.3	73.2	5.4	11.9	59.7	146.2	131.6	275.5	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36944	SPARK PLUGS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
36945	OTH. COMPLETE ELECT. EQPT. FOR INTERN. COMB. ENG. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	34	7.2	46.9	5.9	11.3	33.2	88.7	79.7	165.5	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	23	4.9	27.4	4.2	7.8	20.2	53.3	59.3	110.4	1.0
36946	COMPONENTS, PARTS FOR ENGINE ELECTRICAL EQPT. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	26	5.6	43.9	4.3	8.8	26.6	100.6	82.3	183.7	3.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	17	2.0	16.4	1.5	3.0	8.4	48.7	29.9	80.2	.4
3699	ELECTRICAL EQUIPMENT AND SUPPLIES, NEC										
	ENTIRE INDUSTRY . . . . .	998	20.0	135.4	15.4	28.6	84.5	274.4	251.0	579.5	16.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	972	16.9	113.7	13.2	24.4	73.2	230.1	210.5	436.3	14.7
36992	LAMP BULB COMPONENTS, OTHER ELECTRICAL PRODUCTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	115	9.2	68.2	7.0	13.4	43.2	141.0	127.0	265.7	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	98	7.6	56.2	5.9	11.0	37.1	119.0	104.5	220.0	5.6
36996	APPLIANCE WIRE, CORO, CORO SETS (PURCH MATERIALS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	46	4.5	25.1	3.7	6.7	17.1	49.1	56.2	103.3	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. .	43	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

(D) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3691	Storage batteries.....1972..	971.3	939.1	19.6	12.6	98	952.7	939.1	13.6	99
	.....1967..	576.6	563.2	3.4	10.0	99	579.4	563.2	16.2	97
3692	Primary batteries, dry and wet.....1972..	348.1	311.6	17.4	19.2	95	316.7	311.6	5.1	98
	.....1967..	307.6	283.2	8.9	15.5	97	327.9	283.2	44.7	86
3693	X-ray apparatus and tubes.....1972..	443.8	352.6	18.5	72.7	95	383.0	352.6	30.4	92
	.....1967..	233.2	154.0	11.9	67.3	93	179.8	154.0	25.8	86
3694	Engine electrical equipment.....1972..	2,035.0	1,545.8	420.0	69.2	79	1,781.0	1,545.8	235.2	87
	.....1967..	1,364.7	1,031.2	238.1	95.4	81	1,220.2	1,031.2	189.0	85
3699	Electrical equipment and supplies, n.e.c..1972..	501.8	436.3	35.9	29.6	91	845.5	451.6	<sup>1</sup> 393.9	<sup>1</sup> 52
	.....1967..	290.8	251.7	17.6	21.5	93	506.3	251.7	<sup>1</sup> 254.6	<sup>1</sup> 50

<sup>1</sup>Included in this industry are appliance wire and cord and flexible cord sets which are also primary to industry 3357, Nonferrous Wiredrawing, Etc.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Storage batteries (SIC 3691)	Primary batteries, dry and wet (SIC 3692)	X-ray apparatus and tubes (SIC 3693)	Engine electrical equipment (SIC 3694)	Electrical equipment and supplies, n.e.c. (SIC 3699)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	971.3	348.1	443.8	2,035.0	528.7	(X)
3691	Storage batteries.....	952.7	939.1	(5-10)	-	(over 2)	-	(2-5)
36911	Storage batteries, SLI type...	703.3	703.2	(under 2)	-	-	-	(under 2)
36912	Storage batteries, other than SLI type, including parts for storage batteries, all types.	225.8	212.3	(5-10)	-	(over 2)	-	(2-5)
36910	Storage batteries, n.s.k.....	23.6	23.6	-	-	-	-	-
36920	Primary batteries, dry and wet	316.7	(2-5)	311.6	-	(under 2)	-	1.1
36930	X-ray equipment including X-ray tubes and electric therapeutic apparatus.....	383.0	-	-	352.6	-	-	30.4
3694	Engine electrical equipment....	1,781.0	(over 2)	-	-	1,545.8	(under 2)	231.4
36941	Ignition harness and cable sets.....	112.8	(under 2)	-	-	(D)	-	(D)
36942	Battery charging generators...	382.1	-	-	-	374.1	-	8.0
36943	Cranking motors.....	313.7	-	-	-	306.7	-	7.0
36944	Spark plugs.....	290.3	-	-	-	(D)	-	(D)
36945	Other complete electrical equipment for internal combustion engines.....	411.8	-	-	-	356.3	-	55.5
36946	Components and parts for engine electrical equipment..	225.5	(under 2)	-	-	203.9	(Z)	19.6
36940	Engine electrical equipment, n.s.k.....	44.8	-	-	-	44.2	-	.6
3699	Electrical equipment, n.e.c.....	845.5	(under 2)	-	-	(under 2)	451.6	393.9
36992	Lamp-bulb components, and other electrical products....	326.6	-	-	-	-	217.5	109.1
36996	Appliance wire and cord and flexible cord sets (manufactured from purchased material)	374.4	(under 2)	-	-	(under 2)	91.6	282.8
36990	Electrical equipment, n.e.c....	144.5	-	-	-	-	142.5	2.0
	Other product shipments by 4-digit product groups:							
2831	Biological products.....	(X)	-	-	(over 2)	-	-	(X)
3356	Nonferrous rolling and drawing, n.e.c.....	(X)	-	-	-	(over 2)	(under 2)	(X)
3357	Nonferrous wire drawing and insulating.....	(X)	-	-	-	(10-20)	-	(X)
3399	Primary metal products, n.e.c.	(X)	-	-	-	(20-50)	-	(X)
3425	Handsaws and saw blades.....	(X)	-	-	-	-	(over 2)	(X)
3561	Pumps and pumping equipment...	(X)	-	-	-	(over 2)	-	(X)
3592	Carburetors, pistons, rings, valves.....	(X)	-	-	-	(over 2)	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	-	-	-	(5-10)	-	(X)
3612	Transformers.....	(X)	-	-	(over 2)	-	(under 2)	(X)
3613	Switchgear and switchboard apparatus.....	(X)	-	-	-	-	2.3	(X)
3621	Motors and generators.....	(X)	-	-	-	83.0	(under 2)	(X)
3623	Welding apparatus, electric...	(X)	(over 2)	-	-	-	-	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	-	-	-	(5-10)	(under 2)	(X)
3643	Current-carrying wiring devices.....	(X)	-	-	-	(under 2)	5.4	(X)
3647	Vehicular lighting equipment..	(X)	-	-	-	(5-10)	-	(X)
3648	Lighting equipment, n.e.c.....	(X)	-	(5-10)	-	(under 2)	(5-10)	(X)
3651	Radio and TV receiving sets...	(X)	-	-	-	-	-	(X)
3678	Electronic connectors.....	(X)	-	-	-	(over 2)	-	(X)
3679	Electronic components, n.e.c..	(X)	-	-	(under 2)	(over 2)	(2-5)	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	-	-	163.6	(under 2)	(X)
3841	Surgical and medical instruments.....	(X)	-	-	(over 2)	-	(under 2)	(X)
3842	Surgical appliances and supplies.....	(X)	(under 2)	-	(over 2)	-	-	(X)
3999	Manufacturing industries, n.e.c.....	(X)	-	-	-	-	-	(X)
	Miscellaneous receipts, total...	(X)	12.6	19.2	72.7	69.2	29.6	(X)
93000 00	Contract work.....	(X)	(under 2)	-	(2-5)	1.5	6.4	(X)
99980 13	Sales of scrap and refuse.....	(X)	4.2	(under 2)	(under 2)	9.5	.2	(X)
99980 98	Other miscellaneous receipts..	(X)	(under 2)	(under 2)	(20-50)	8.2	1.9	(X)
99989 00	Resales.....	(X)	7.6	(10-20)	41.6	50.0	21.1	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the industries with over \$2 million shipments of the product			Listing of the industries with over \$2 million shipments of the product--Continued	
3691	3648 Lighting equipment, n.e.c.....	(2-5)	3694	3623 Welding apparatus, electric.....	(2-5)
3693	3662 Radio and TV communication equipment.....	2.7	3643	3643 Current-carrying wiring devices.....	(over 2)
	3673 Electron tubes, transmitting.....	(10-20)	3647	3647 Vehicular lighting equipment.....	(10-20)
	3825 Instruments to measure electricity.....	(2-5)	3679	3679 Electronic components, n.e.c.....	(10-20)
	3843 Dental equipment and supplies.....	(5-10)	3714	3714 Motor vehicle parts and accessories.....	(100-200)
	3861 Photographic equipment and supplies.....	(2-5)	3699	3356 Nonferrous rolling and drawing, n.e.c.....	(over 2)
3694	3079 Miscellaneous plastics products.....	(over 2)	3469	3469 Metal stampings, n.e.c.....	(5-10)
	3523 Farm machinery and equipment.....	(over 2)	3585	3585 Refrigerating and heating equipment.....	29.3
	3592 Carburetors, pistons, rings, valves.....	(5-10)	3634	3634 Electric housewares and fans.....	(10-20)
	3613 Switchgear and switchboard apparatus.....	(over 2)	3641	3641 Electric lamps.....	(20-50)
	3621 Motors and generators.....	18.8	3643	3643 Current-carrying wiring devices.....	7.9
	3622 Industrial controls.....	(2-5)	3662	3662 Radio and TV communication equipment.....	2.9
			3714	3714 Motor vehicle parts and accessories.....	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Includes the total for product class 33576, Appliance wire and cord and flexible cord sets, which is primary to industry 3357.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3691- --	STORAGE BATTERIES, TOTAL.....		(X)	952.7	(X)	579.4
36911 --	Storage Batteries, SLI Type.....		(X)	703.3	(X)	404.8
	Motor vehicle batteries, including tractor, aircraft, and marine; starting, lighting, and ignition types, complete units: Automobile, truck, farm tractor, and bus: Automotive types (all types primarily designed to fit passenger cars, regardless of application):					
36911 13	For original equipment, 6 volt and 12 volt.....	Million units.	11.6	131.0	10.4	93.4
	For replacement:					
	Wet:					
36911 21	6 volt.....	..do.....	2.2	26.3	3.8	33.2
36911 23	12 volt.....	..do.....	18.3	215.4	11.6	105.1
	Dry charge:					
36911 27	6 volt.....	..do.....	2.7	31.9	3.1	24.6
36911 28	12 volt.....	..do.....	16.9	207.1	11.8	108.1
	Heavy-duty transport, motor coach and bus, and diesel starting batteries (excluding marine and railway diesel starting batteries):					
	For original equipment:					
36911 32	6 volt.....	..do.....	.9	12.9	.2	1.9
36911 35	12 volt.....	..do.....	.6	10.3	.3	3.6
	For replacement:					
36911 42	6 volt.....	..do.....	1.0	14.4	.6	8.7
36911 45	12 volt.....	..do.....	1.1	20.9	1.0	17.2
36911 51	Aircraft.....	..do.....	.1	3.9	.1	3.8
36911 71	Marine.....	..do.....	.2	3.3	.2	2.3
36911 98	Other starting, lighting, and ignition type batteries, including motorcycle.....		(X)	25.9	(X)	2.2
36911 00	Storage batteries, SLI type, n.s.k.....				(X)	.7
36912 --	Storage Batteries, Other Than SLI Type, Including Parts for Storage Batteries, All Types.....		(X)	225.8	(X)	154.7
	Motive power type:					
36912 11	Industrial truck type.....	Million units.	.7	65.7	.7	42.2
36912 19	Other motive power type storage batteries, including mining and industrial locomotive, and railway.....	..do.....	1.0	16.8	1.1	19.9
36912 51	Communication storage batteries, including radio station, telephone, telegraph, and railroad signaling.....		(X)	30.3	(X)	23.8
36912 61	Railway diesel starting batteries.....	1,000 units...	19.9	6.6	(NA)	6.0

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3691- --	STORAGE BATTERIES—Continued					
36912 --	Storage Batteries, Other Than SLI Type, Including Parts for Storage Batteries, All Types—Continued					
	Nickel-cadmium:					
	Sealed:					
36912 72	Batteries.....	Mil. batteries	11.7	31.1	3.6	13.6
36912 73	Cells.....	Million cells.	32.3	(X)		
36912 75	Vented:					
36912 77	Batteries.....	Mil. batteries	4.6	16.5		
	Cells.....	Million cells.	8.6	(X)		
	Lead acid:					
36912 81	Batteries.....	Mil. batteries	1.9	17.9	(NA)	37.2
36912 83	Cells.....	Million cells.	(NA)	(X)		
36912 98	Other storage batteries, including farm and emergency lighting, and railway air conditioning and car lighting.....	1,000 units...	426.7	17.6		
36912 91	Parts and supplies for storage batteries.....		(X)	22.3	(X)	10.3
36912 00	Storage batteries, other than SLI type, including parts for storage batteries, all types, n.s.k.....		(X)	1.0	(X)	1.7
36910 00	Storage batteries for establishments with 10 employees or more. (See note.).....		(X)	14.9	(X)	14.2
36910 02	Storage batteries for establishments with less than 10 employees. (See note.).....		(X)	8.7	(X)	5.7
3692- --	PRIMARY BATTERIES, DRY AND WET, TOTAL.....		(X)	316.7	(X)	327.9
	Dry Cell (Leclanche Type), Except Military:					
	General purpose (6 inches or equivalent) 1.5 volts:					
36920 12	Single unit.....	Mil. batteries	5.3	5.4	16.7	9.0
36920 16	Multiple unit.....	..do.....				
	Flashlight cells (single cell only):					
36920 21	D size (standard and industrial).....	Million cells.	370.3	51.1	394.6	42.0
36920 25	C size (medium).....	..do.....				
36920 29	All other single flashlight cell batteries, including AA- and AAA-size penlight and N-size novelty.....	..do.....				
36920 31	Lantern and other multiple-cell batteries, including general purpose industrial RR-type emergency and other multiple cells..	Mil. batteries	669.4	149.7	(NA)	202.2
	Radio A-B and C cells:					
36920 55	Portable radio and instrument batteries.....	..do.....				
36920 58	All other radio A-B and C cells, including farm radio A-B packs, hearing aid cells, and photoflash batteries.....	..do.....				
	Dry Cell, Except Leclanche Type and Military:					
36920 72	Mercury.....	..do.....	208.9	59.9		
36920 76	Alkali.....	..do.....				
36920 79	All other dry cells.....	..do.....				
36920 82	Dry cell, Military type, including general purpose 1.5 volts, standard flashlight, and portable radio types.....	..do.....	34.7	22.2	71.2	40.5
36920 92	Wet cell primary batteries.....	..do.....	1.0	8.3	2.1	16.2
36920 95	Parts and supplies for primary batteries.....		(X)	14.7	(X)	13.1
36920 00	Primary batteries, dry and wet, n.s.k., for establishments with more than 10 employees. (See note.).....		(X)	4.8	(X)	4.6
36920 02	Primary batteries, dry and wet, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	.6	(X)	.3
3693- --	X-RAY APPARATUS AND TUBES: <sup>1</sup>					
36930 00	As reported in the census of manufactures.....		(X)	383.0	(X)	179.8
	As reported in Current Industrial Reports Series MA-36N.....		(X)	382.3	(X)	172.6
	Medical diagnostic and therapeutic electronic equipment, except X-ray:					
36930 82	Diathermy equipment.....		(X)	( <sup>2</sup> )	(X)	.9
36930 92	Electrocardiographs.....	1,000 units...	12.7	12.7	13.1	11.0
36930 94	Electroencephalographs.....		(X)	2.1	(X)	42.3
36930 96	Other (electronic).....		(X)	161.4		
	X-ray equipment and accessories, excluding X-ray, spectrometers, and diffraction equipment:					
36930 19	Medical and dental X-ray and gamma-ray equipment.....		(X)	142.3	(X)	68.2
36930 34	Industrial and scientific X-ray equipment.....		(X)	24.8	(X)	24.8
36930 71	X-ray equipment accessories.....		(X)	21.4	(X)	13.3
36930 49	X-ray tubes and valves, sold separately.....	1,000 units...	39.2	19.7	(NA)	12.1

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers					
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)	(million dollars)	(million dollars)
			1972					
3694- --	ENGINE ELECTRICAL EQUIPMENT, TOTAL.....		(X)	1,781.0	(X)	(X)	(X)	(X)
36941 --	Ignition Harness and Cable Sets.....		(X)	112.8	(X)	(X)	(X)	(X)
	Ignition harness sets:							
36941 11	Automotive type.....	Mil.units.	27.3	61.8	(NA)	(NA)	(NA)	(NA)
36941 15	Aircraft type.....	..do....	(NA)	( <sup>3</sup> )	(X)	(X)	(X)	(X)
36941 19	Other, including tractor, stationary engine, etc.....	..do....	(NA)	( <sup>3</sup> )	(X)	(X)	(X)	(X)
	Cable sets:							
36941 31	Automotive type.....	..do....	8.9	21.6	(NA)	(NA)	(NA)	(NA)
36941 35	Aircraft and other type.....	..do....	.4	14.7	(X)	(X)	(X)	(X)
36941 00	Ignition harness sets, n.s.k.....		(X)	<sup>3</sup> 14.7	(X)	(X)	(X)	(X)
36942 --	Battery Charging Generators.....		(X)	382.1	(X)	(X)	(X)	(X)
	Battery charging generators, including alternators for internal combustion engines:							
	Passenger car and light truck type (new):							
36942 11	6 volt.....	Mil.units.	.1	1.3	(NA)	(NA)	(NA)	(NA)
36942 15	12 volt.....	..do....	14.6	235.2	(NA)	(NA)	(NA)	(NA)
36942 21	Heavy-duty truck and bus type—12 volt and higher (new).....	..do....	.9	38.0	(D)	(D)	27.0	(D)
36942 29	All other, excluding farm lighting generators, but including farm tractor-type battery charging generators and generators sold to engine manu- facturers for incorporation into end products, stationary engines, marine engines, construction machinery, etc.....	..do....	(NA)	( <sup>4</sup> )	(X)	(X)	(X)	(X)
36942 27	Rebuilt automotive type generators and alternators.....	..do....	<sup>5</sup> 2.1	<sup>5</sup> 25.4	(X)	(X)	(X)	(X)
	Regulators for battery charging generators:							
36942 37	Rebuilt automotive type regulators <sup>5</sup> .....	..do....	13.6	56.1	(X)	(X)	(X)	(X)
36942 41	Passenger car and light truck type (new).....	..do....			(X)	(X)	(X)	(X)
36942 47	Heavy-duty truck and bus type (new).....	..do....			4.2	17.4	27.4	(D)
36942 49	Other types.....	..do....			(X)	(X)	(X)	(X)
36942 00	Battery charging generators, n.s.k.....		(X)	<sup>4</sup> 26.1	(X)	(X)	(X)	(X)
36943 --	Cranking Motors.....		(X)	313.7	(X)	(X)	(X)	(X)
36943 11	Passenger car and light truck type (new).....	Mil.units.	12.9	210.3	(D)	(D)	171.2	(D)
36943 31	Heavy-duty truck and bus type (new).....	..do....	.4	29.1	(NA)	(NA)	(NA)	(NA)
36943 51	Farm tractor type.....	..do....	3.4	72.7	(X)	(X)	(X)	(X)
36943 71	Other cranking motors, including aircraft type.....	..do....			(X)	(X)	(X)	(X)
36943 41	Rebuilt automotive type cranking motors <sup>5</sup> .....	..do....			(X)	(X)	(X)	(X)
36943 00	Cranking motors, n.s.k.....	..do....			(X)	(X)	(X)	(X)
36944 --	Spark Plugs.....		891.8	290.3	(X)	(X)	(X)	(X)
36944 11	Motor vehicles (passenger cars, trucks, and buses).....	Mil.units.	891.8	290.3	740.4	246.3	16.9	(D)
36944 31	Other types.....	..do....						
36945 --	Other Complete Electrical Equipment for Internal Combustion Engines.....		(X)	411.8	(X)	(X)	(X)	(X)
	Ignition coils:							
36945 11	Motor vehicles (trucks, buses, and passenger cars).....	Mil.units.	21.5	54.5	(NA)	(NA)	(NA)	(NA)
36945 19	Other ignition coils.....	..do....			(X)	(X)	(X)	(X)
	Distributors:							
36945 31	Motor vehicles (passenger cars, trucks, and buses).....	..do....	13.5	112.7	(D)	(D)	81.0	(D)
36945 39	Other types.....	..do....	.1	1.4	(X)	(X)	(X)	(X)
36945 53	Ignition magnetos (all types).....	1,000 units.	80.5	5.3	(X)	(X)	(X)	(X)
36945 61	Other ignition equipment.....	..do....	(NA)	19.8	(X)	(X)	(X)	(X)
	Switches specifically designed for use in vehicles and aircraft (all types: starting, lighting, ignition, etc.):							
36945 81	Automotive switches (trucks, buses, and passenger cars).....	Mil.units.	221.4	164.0	(X)	(X)	(X)	(X)
36945 85	Aircraft switches.....	..do....	3.2	6.3	(X)	(X)	(X)	(X)
36945 89	Other vehicle switches.....	..do....			(X)	(X)	(X)	(X)
36945 98	Other complete electrical equipment units for internal combustion engines and vehicles.....		(X)	22.1	(X)	(X)	(X)	(X)
36945 00	Other complete electrical equipment for internal combustion engines, n.s.k.....		(X)	25.7	(X)	(X)	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers					
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)		
1972								
3694- --	ENGINE ELECTRICAL EQUIPMENT—Continued							
36946 --	Components and Parts for Engine Electrical Equipment.....		(X)	225.5	(X)	(X)	(X)	(X)
36946 11	Armatures, field coils, and drive end housings for cranking motors.....		(X)	18.2	(X)	(X)	(X)	(X)
36946 21	Armatures for battery charging generators.....	1,000 units.	1,299.5	8.5	(X)	(X)	(X)	(X)
36946 31	Parts for ignition distributors: Distributor heads and rotors.....		(X)	16.9	(X)	(X)	(X)	(X)
36946 53	Breaker point sets: Motor vehicles (passenger cars, trucks, and buses).....	Mil.units.	168.3	67.0	(NA)	(NA)	(NA)	(NA)
36946 57	All other types.....	..do....			(X)	(X)	(X)	(X)
36946 73	Condensers: Motor vehicles (passenger cars, trucks, and buses).....	..do....	100.2	29.9	(NA)	(NA)	(NA)	(NA)
36946 75	All other types.....	..do....			(NA)	(NA)	(NA)	(NA)
36946 98	Other component parts for engine electrical equipment, including field coils for battery charging generators.....		(X)	66.6	(X)	(X)	(X)	(X)
36946 00	Components and parts for engine electrical equipment, n.s.k.....		(X)	18.4	(X)	(X)	(X)	(X)
36940 00	Engine electrical equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	35.0	(X)	(X)	(X)	(X)
36940 02	Engine electrical equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	9.8	(X)	(X)	(X)	(X)
1967								
3694- --	ENGINE ELECTRICAL EQUIPMENT, TOTAL.....		(X)	1,220.2	(X)	(X)	(X)	(X)
36941 --	Ignition Harness and Cable Sets.....		(X)	76.5	(X)	(X)	(X)	(X)
36941 11	Ignition harness sets: Automotive type.....	Mil.units.	24.2	33.3	(X)	(X)	(X)	(X)
36941 15	Aircraft type.....	..do....	(NA)	2.3	(X)	(X)	(X)	(X)
36941 19	Other, including tractor, stationary engine, etc.....	..do....	(NA)	3.4	(X)	(X)	(X)	(X)
36941 31	Cable sets: Automotive type.....	..do....	(NA)	33.9	(X)	(X)	(X)	(X)
36941 35	Aircraft and other type.....	..do....			(X)	(X)	(X)	(X)
36941 00	Ignition harness sets, n.s.k.....		(X)	3.6	(X)	(X)	(X)	(X)
36942 --	Battery Charging Generators.....		(X)	288.3	(X)	(X)	(X)	(X)
36942 11	Battery charging generators, including alternators for internal combustion engines: Passenger car and light truck type (new): 6 volt.....	Mil.units.	(NA)	2.1	(D)	(D)	(D)	(D)
36942 15	12 volt.....	..do....	11.6	156.3	.3	9.2	147.1	
36942 21	Heavy-duty truck and bus type—12 volt and higher (new).....	..do....			(D)	(D)	(D)	(D)
36942 29	All other, excluding farm lighting generators, but including farm tractor-type battery charging generators and generators sold to engine manu- facturers for incorporation into end products, stationary engines, marine engines, construction machinery, etc.....	..do....	(NA)	51.1				
36942 27	Rebuilt automotive type generators and alternators.....	..do....	(NA)	527.0	(X)	(X)	(X)	(X)
36942 37	Regulators for battery charging generators: Rebuilt automotive type regulators.....	..do....	(NA)	5.9	(X)	(X)	(X)	(X)
36942 41	Passenger car and light truck type (new).....	..do....	15.1	41.4	2.9	9.6	31.8	
36942 47	Heavy-duty truck and bus type (new).....	..do....			(D)	(D)	(D)	(D)
36942 49	Other types.....	..do....	1.4	9.4	(X)	(X)	(X)	(X)
36942 00	Battery charging generators, n.s.k.....		(X)	.1	(X)	(X)	(X)	(X)
36943 --	Cranking Motors.....		(X)	221.2	(X)	(X)	(X)	(X)
36943 11	Passenger car and light truck type (new).....	Mil.units.	11.7	197.7	(NA)	(NA)	(NA)	(NA)
36943 31	Heavy-duty truck and bus type (new).....	..do....			(D)	(D)	(D)	(D)
36943 51	Farm tractor type.....	..do....			(X)	(X)	(X)	(X)
36943 71	Other cranking motors, including aircraft type.....	..do....			(X)	(X)	(X)	(X)
36943 41	Rebuilt automotive type cranking motors.....	..do....	52.6	523.5	(X)	(X)	(X)	(X)
36943 00	Cranking motors, n.s.k.....		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers					
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)	(million dollars)	(million dollars)
			1967					
3694- --	ENGINE ELECTRICAL EQUIPMENT—Continued							
36944 --	Spark Plugs.....		(X)	186.4	(X)	(X)	(X)	(X)
36944 11	Motor vehicles (passenger cars, trucks, and buses).....	Mil.units.	656.2	184.8	520.7	155.9	(D)	(D)
36944 31	Other types.....	..do....						
36944 00	Spark plugs, n.s.k.....		(X)	1.6	(X)	(X)	(X)	(X)
36945 --	Other Complete Electrical Equipment for Internal Combustion Engines.....		(X)	267.6	(X)	(X)	(X)	(X)
	Ignition coils:							
36945 11	Motor vehicles (trucks, buses, and passenger cars).....	Mil.units.	16.0	30.0	(NA)	5.7	23.7	.6
36945 19	Other ignition coils.....	..do....	2.4	3.8	(X)	(X)	(X)	(X)
	Distributors:							
36945 31	Motor vehicles (passenger cars, trucks, and buses).....	..do....	11.8	69.6	(NA)	69.6		
36945 39	Other types.....	..do....						
36945 53	Ignition magnetos (all types).....	1,000 units.	(NA)	12.2	(X)	(X)	(X)	(X)
36945 61	Other ignition equipment.....	..do....	(X)	15.9	(X)	(X)	(X)	(X)
	Switches specifically designed for use in vehicles and aircraft (all types: starting, lighting, ignition, etc.):							
36945 81	Automotive switches (trucks, buses, and passenger cars).....	Mil.units.	124.3	120.7	(X)	(X)	(X)	(X)
36945 85	Aircraft switches.....	..do....	(NA)	11.7	(X)	(X)	(X)	(X)
36945 89	Other vehicle switches.....	..do....						
36945 98	Other complete electrical equipment units for internal combustion engines and vehicles.....	..do....	(X)	3.7	(X)	(X)	(X)	(X)
36945 00	Other complete electrical equipment for internal combustion engines, n.s.k.....							
36946 --	Components and Parts for Engine Electrical Equipment.....		(X)	150.6	(X)	(X)	(X)	(X)
36946 11	Armatures, field coils, and drive end housings for cranking motors.....		(X)	7.3	(X)	(X)	(X)	(X)
36946 21	Armatures for battery charging generators.....	1,000 units.	(NA)	3.6	(X)	(X)	(X)	(X)
	Parts for ignition distributors:							
36946 31	Distributor heads and rotors.....		(X)	6.9	(X)	(X)	(X)	(X)
	Breaker point sets:							
36946 53	Motor vehicles (passenger cars, trucks, and buses).....	Mil.units.	(NA)	38.1	(NA)	38.1		
36946 57	All other types.....	..do....						
	Condensers:							
36946 73	Motor vehicles (passenger cars, trucks, and buses).....	..do....	50.1	13.8	(NA)	13.8		
36946 75	All other types.....	..do....						
36946 98	Other component parts for engine electrical equipment, including field coils for battery charging generators.....		(X)	78.6	(X)	(X)	(X)	(X)
36946 00	Components and parts for engine electrical equipment, n.s.k.....		(X)	2.3	(X)	(X)	(X)	(X)
36940 00	Engine electrical equipment, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	25.7	(X)	(X)	(X)	(X)
36940 02	Engine electrical equipment, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	3.9	(X)	(X)	(X)	(X)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3699- --	ELECTRICAL EQUIPMENT, N.E.C., TOTAL.....		(X)	845.5	(X)	506.3
36992 --	Lamp Bulb Components and Other Electrical Products.....		(X)	326.6	(X)	192.4
36992 11	Electric lamp (bulb) bases.....		(X)	35.4	(X)	37.0
36992 21	Other electric lamp (bulb) components, including supports, electrodes, lead-ins, and filaments, but excluding lamp bulb blanks.....		(X)	77.9	(X)	65.8
36992 51	Electric gongs, chimes, and bells.....		(X)	12.4	(X)	19.2
36992 71	Christmas tree lighting outfits, including value of bulbs made or purchased and assembled in outfits.....	1,000 units...	(NA)	15.9	(NA)	19.5
	Electric warm air furnaces (forced air) and electric duct heaters:					
36992 60	As reported in the census of manufactures.....		(X)	44.2	(X)	6.6
	As reported in Current Industrial Reports Series MA-34N.....	1,000 units...	367.3	43.7	42.1	5.9
36992 63	Electric infrared heaters.....					
36992 67	All other electric comfort heating, excluding household air space heaters.....		(X)	110.2	(X)	44.3
36992 98	Other electrical products, n.e.c.....					
36992 00	Lamp bulb components and other electrical products, n.s.k.....	1,000 units...	(NA)	30.6	(NA)	(NA)
36996 00	Appliance Wire and Cord and Flexible Cord Sets <sup>1</sup> .....		(X)	374.4	(X)	276.8
33576 00	As reported in Current Industrial Reports Series MA-33L.....	1,000 units...	(NA)	<sup>6</sup> 341.9	140.7	259.8
	As reported in the census of manufactures.....		(X)	374.4	(X)	276.8
33576 00	Made in industry 3357 (drawing and insulating of nonferrous wire).....		(X)	262.9	(X)	179.0
36996 00	Made in industry 3699 (electrical machinery, equipment, n.e.c.), and other industries.....		(X)	111.5	(X)	97.8
36990 00	Electrical equipment, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	94.0	(X)	20.7
36990 02	Electrical equipment, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	50.5	(X)	16.4

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. <sup>T</sup> Revised.

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>Figures for product codes 36930 82 and 36930 94 are combined to avoid disclosing the operations of individual companies.

<sup>3</sup>Figures for product codes 36941 15, 36941 19, and 36941 00 are combined.

<sup>4</sup>Figures for product codes 36942 29 and 36942 00 are combined.

<sup>5</sup>Data are limited to rebuilding on a factory basis.

<sup>6</sup>In the Current Industrial Report series, coverage includes all establishments classified in industry 3357 but is limited to the 50 largest companies fabricating appliance wire and cord and flexible cord sets from purchased insulated wire (industry 3699 and other industries).

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
STORAGE BATTERIES (36911)			STORAGE BATTERIES, OTHER THAN SLI TYPE, INCLUDING PARTS FOR STORAGE BATTERIES, ALL TYPES (36912)—Con.		
United States.....	703.3	404.8	West Region.....	11.1	8.6
Northeast Region.....	131.3	77.4	Mountain Division.....	AA	(NA)
New England Division.....	25.2	14.1	Colorado.....	AA	(NA)
Vermont.....	EE	BB	Pacific Division.....	EE	CC
Massachusetts.....	AA	CC	California.....	CC	7.5
Connecticut.....	EE	BB			
Middle Atlantic Division.....	106.1	63.3	IGNITION HARNESS AND CABLE SETS (36941)		
New York.....	AA	(NA)	United States.....	112.8	76.5
New Jersey.....	FF	FF	Northeast Region.....	21.4	18.6
Pennsylvania.....	GG	FF	New England Division.....	BB	3.0
			Massachusetts.....	BB	BB
North Central Region.....	244.5	153.1	Middle Atlantic Division.....	EE	15.6
East North Central Division.....	180.7	111.2	New York.....	CC	10.6
Ohio.....	CC	5.1	Pennsylvania.....	9.0	BB
Indiana.....	109.7	65.0			
Illinois.....	FF	15.8	North Central Region.....	66.9	49.2
Michigan.....	EE	FF	East North Central Division.....	59.6	FF
Wisconsin.....	20.6	CC	Ohio.....	AA	EE
West North Central Division.....	63.7	41.9	Indiana.....	EE	EE
Minnesota.....	EE	CC	Illinois.....	6.7	BB
Iowa.....	AA	(NA)	Michigan.....	30.4	20.3
Missouri.....	11.7	CC	Wisconsin.....	CC	(NA)
Nebraska.....	BB	AA	West North Central Division.....	7.3	AA
Kansas.....	FF	FF	Missouri.....	CC	AA
South Region.....	214.7	100.3	South Region.....	EE	AA
South Atlantic Division.....	86.9	44.6	South Atlantic Division.....	BB	(NA)
Delaware.....	EE	CC	Florida.....	BB	(NA)
Virginia.....	CC	BB	East South Central Division.....	9.9	AA
North Carolina.....	CC	BB	Kentucky.....	BB	(NA)
South Carolina.....	CC	BB	Tennessee.....	BB	(NA)
Georgia.....	FF	20.6	Mississippi.....	BB	AA
Florida.....	FF	8.4	West South Central Division.....	AA	(NA)
East South Central Division.....	49.3	20.7			
Kentucky.....	FF	CC	West Region.....	CC	CC
Tennessee.....	EE	9.5	Pacific Division.....	CC	CC
Alabama.....	CC	AA	California.....	CC	CC
Mississippi.....	CC	BB			
West South Central Division.....	78.5	35.0	BATTERY CHARGING GENERATORS (36942)		
Louisiana.....	FF	(NA)	United States.....	382.1	288.3
Oklahoma.....	CC	CC	Northeast Region.....	20.8	25.8
Texas.....	FF	FF	New England Division.....	BB	3.9
			Massachusetts.....	BB	3.9
West Region.....	112.8	74.0	Middle Atlantic Division.....	EE	21.9
Mountain Division.....	BB	5.3	New York.....	EE	10.3
Colorado.....	BB	5.3			
Pacific Division.....	GG	68.7	North Central Region.....	340.8	243.5
Oregon.....	EE	CC	East North Central Division.....	338.0	GG
California.....	92.7	60.7	Ohio.....	19.0	EE
			Indiana.....	GG	GG
STORAGE BATTERIES, OTHER THAN SLI TYPE, INCLUDING PARTS FOR STORAGE BATTERIES, ALL TYPES (36912)			Illinois.....	4.1	4.0
United States.....	225.8	154.7	Michigan.....	GG	GG
Northeast Region.....	83.2	59.5	Wisconsin.....	CC	BB
New England Division.....	1.3	2.2	West North Central Division.....	2.8	BB
Middle Atlantic Division.....	81.9	57.3	Nebraska.....	AA	(NA)
New York.....	CC	EE			
New Jersey.....	EE	EE	South Region.....	14.0	14.5
Pennsylvania.....	54.4	31.4	South Atlantic Division.....	10.4	4.9
			Maryland.....	BB	(NA)
North Central Region.....	87.3	70.8	South Carolina.....	CC	BB
East North Central Division.....	GG	FF	East South Central Division.....	3.4	5.4
Ohio.....	EE	BB	Alabama.....	BB	(NA)
Indiana.....	EE	CC			
Illinois.....	FF	35.1	West Region.....	6.3	4.5
Michigan.....	BB	(NA)	Pacific Division.....	CC	BB
Wisconsin.....	CC	(NA)	California.....	CC	3.8
West North Central Division.....	FF	FF			
Minnesota.....	CC	CC	CRANKING MOTORS (36943)		
Missouri.....	CC	EE	United States.....	313.7	221.2
Kansas.....	AA	(NA)	Northeast Region.....	FF	10.1
			New England Division.....	CC	BB
South Region.....	44.1	15.8	Massachusetts.....	CC	BB
South Atlantic Division.....	FF	EE	Middle Atlantic Division.....	EE	CC
North Carolina.....	BB	BB	New York.....	CC	CC
South Carolina.....	BB	CC	New Jersey.....	AA	(NA)
Georgia.....	EE	BB			
Florida.....	FF	CC			
West South Central Division.....	CC	(NA)			
Texas.....	CC	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
CRANKING MOTORS (36943)—Continued			COMPONENTS AND PARTS FOR ENGINE ELECTRICAL EQUIPMENT (36946)		
North Central Region.....	275.1	196.4	United States.....	225.5	150.6
East North Central Division.....	GG	GG	Northeast Region.....	85.9	39.0
Ohio.....	BB	BB	New England Division.....	13.4	12.4
Indiana.....	GG	GG	Massachusetts.....	BB	BB
Michigan.....	GG	GG	Connecticut.....	EE	CC
West North Central Division.....	BB	AA	Middle Atlantic Division.....	72.5	26.6
Minnesota.....	BB	AA	New York.....	63.3	FF
South Region.....	EE	10.3	New Jersey.....	CC	BB
South Atlantic Division.....	EE	4.7	Pennsylvania.....	BB	(NA)
Maryland.....	AA	(NA)			
South Carolina.....	EE	BB	North Central Region.....	128.5	99.2
West Region.....	3.0	4.4	East North Central Division.....	GG	99.2
Pacific Division.....	BB	BB	Ohio.....	EE	CC
California.....	BB	4.1	Indiana.....	GG	GG
			Illinois.....	30.8	31.8
SPARK PLUGS (36944)			Wisconsin.....	BB	BB
United States.....	290.3	186.4	West North Central Division.....	BB	(NA)
Northeast Region.....	EE	EE	Missouri.....	BB	(NA)
Middle Atlantic Division.....	EE	EE	South Region.....	EE	EE
Pennsylvania.....	EE	EE	East South Central Division.....	8.0	10.6
North Central Region.....	269.7	GG	Kentucky.....	BB	CC
East North Central Division.....	GG	159.4	Alabama.....	BB	BB
Ohio.....	GG	GG	West South Central Division.....	AA	(NA)
Michigan.....	GG	GG	Texas.....	AA	(NA)
West North Central Division.....	FF	EE			
Iowa.....	FF	EE	West Region.....	AA	(NA)
South Region.....	CC	BB	LAMP BULB COMPONENTS AND OTHER ELECTRICAL PRODUCTS (36992)		
East South Central Division.....	CC	BB	United States.....	326.6	192.4
Alabama.....	CC	BB	Northeast Region.....	130.3	104.8
			New England Division.....	48.3	33.3
OTHER COMPLETE ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES (36945)			Maine.....	CC	CC
United States.....	411.8	267.6	New Hampshire.....	CC	CC
Northeast Region.....	73.1	53.3	Massachusetts.....	9.9	BB
New England Division.....	49.3	25.2	Rhode Island.....	EE	EE
Massachusetts.....	FF	21.5	Connecticut.....	3.9	BB
Connecticut.....	CC	3.7	Middle Atlantic Division.....	81.9	71.5
Middle Atlantic Division.....	23.8	28.1	New York.....	27.7	FF
New York.....	EE	EE	New Jersey.....	38.8	35.2
New Jersey.....	3.6	BB	Pennsylvania.....	15.4	EE
Pennsylvania.....	BB	CC	North Central Region.....	125.7	65.5
North Central Region.....	294.1	202.8	East North Central Division.....	108.5	58.9
East North Central Division.....	GG	GG	Ohio.....	64.2	35.6
Ohio.....	FF	FF	Indiana.....	8.8	BB
Indiana.....	GG	GG	Illinois.....	21.1	13.5
Illinois.....	10.4	9.6	Michigan.....	9.2	4.8
Michigan.....	GG	48.1	Wisconsin.....	5.2	AA
Wisconsin.....	CC	10.1	West North Central Division.....	17.3	6.6
West North Central Division.....	AA	BB	Minnesota.....	CC	(NA)
Missouri.....	AA	(NA)	Missouri.....	8.7	BB
South Region.....	37.5	CC	Kansas.....	BB	(NA)
South Atlantic Division.....	EE	(NA)	South Region.....	49.0	11.8
North Carolina.....	CC	(NA)	South Atlantic Division.....	16.0	BB
Florida.....	BB	(NA)	Maryland.....	AA	(NA)
East South Central Division.....	25.4	CC	Virginia.....	EE	(NA)
Kentucky.....	EE	(NA)	North Carolina.....	10.1	BB
Alabama.....	CC	CC	Georgia.....	AA	BB
Mississippi.....	CC	BB	East South Central Division.....	4.5	AA
West South Central Division.....	AA	(NA)	Tennessee.....	BB	AA
West Region.....	7.1	BB	West South Central Division.....	28.4	CC
Mountain Division.....	CC	(NA)	Arkansas.....	BB	(NA)
Colorado.....	BB	(NA)	Texas.....	FF	CC
Nevada.....	BB	(NA)	West Region.....	21.2	10.3
Pacific Division.....	AA	BB	Pacific Division.....	FF	10.3
California.....	AA	BB	California.....	20.1	10.3

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS (33576 AND 36996)			APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS (33576 AND 36996)—Continued		
United States.....	374.4	282.0	North Central Region—Continued		
Northeast Region.....	222.5	156.7	West North Central Division.....	AA	CC
New England Division.....	174.0	123.9	Minnesota.....	(Z)	(NA)
Vermont.....	EE	CC	South Region.....	FF	12.4
Massachusetts.....	37.9	28.5	South Atlantic Division.....	EE	CC
Rhode Island.....	107.8	68.9	North Carolina.....	CC	BB
Connecticut.....	EE	FF	South Carolina.....	CC	AA
Middle Atlantic Division.....	54.9	32.8	East South Central Division.....	CC	BB
New York.....	22.8	17.9	Kentucky.....	CC	BB
New Jersey.....	EE	4.6	Tennessee.....	BB	(NA)
Pennsylvania.....	EE	10.3	West South Central Division.....	AA	AA
North Central Region.....	102.5	93.7	Arkansas.....	AA	(NA)
East North Central Division.....	GG	GG			
Ohio.....	EE	EE	West Region.....	EE	19.2
Indiana.....	36.9	33.3	Pacific Division.....	EE	19.2
Illinois.....	25.6	21.1	California.....	EE	19.2
Michigan.....	EE	17.7			
Wisconsin.....	AA	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3691	Storage batteries.....	952.7	820.1	765.5	697.0	630.7	579.4	504.5	361.5
36911	Storage batteries, SLI type.....	703.3	604.5	572.3	505.4	437.7	404.8	360.9	279.0
36912	Storage batteries (except SLI) and parts.....	225.8	171.9	168.4	159.4	161.9	154.7	139.1	78.5
36910	Storage batteries, n.s.k.....	23.6	(43.7)	(24.8)	(32.2)	31.1	19.9	4.5	4.0
36920	Primary batteries, dry and wet.....	316.7	321.5	289.7	313.1	305.7	327.9	191.6	135.7
36930	X-ray equipment, including tubes and electrotherapeutic apparatus.....	383.0	270.4	234.7	211.1	191.8	179.8	108.6	73.0
3694	Engine electrical equipment.....	1,781.0	1,539.2	1,436.8	1,501.4	1,423.6	1,220.2	873.9	586.9
36941	Ignition harness and cable sets.....	112.8	76.1	68.2	68.7	(71.2)	76.5	58.9	28.8
36942	Battery charging generators.....	382.1	302.3	335.9	381.4	385.8	288.3	199.3	104.9
36943	Cranking motors.....	313.7	272.0	235.3	253.1	245.4	221.2	134.7	82.3
36944	Spark plugs.....	290.3	265.9	243.6	231.8	208.8	186.4	143.8	123.1
36945	Other complete electrical equipment for internal combustion engines.....	411.8	385.0	329.7	348.4	325.2	267.6	217.1	133.8
36946	Components and parts for engine electrical equipment.....	225.5	213.4	200.7	185.3	156.1	150.6	114.7	103.3
36940	Engine electrical equipment, n.s.k.....	44.8	24.5	(23.4)	32.7	31.1	29.6	5.4	10.6
3699	Electrical equipment and supplies, n.e.c.....	845.5	417.1	383.2	456.9	349.2	506.3	335.5	249.2
36992	Lamp bulb components and other electrical products.....	326.6	265.3	242.2	218.8	213.7	192.4	156.9	115.8
36996	Appliance wire, cord, and cord sets (purchased materials)..	374.4	121.8	111.8	155.5	101.8	276.8	167.7	127.1
36990	Electrical equipment, n.e.c., n.s.k.....	144.5	(30.0)	(29.2)	(82.6)	(33.7)	37.1	10.9	6.3

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3691.--STORAGE BATTERIES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 493.4	(X)	300.3
	Lead:					
333233	Refined unalloyed lead.....	1,000 s. tons.	254.7	76.6	162.6	45.2
333234	Antimonial lead.....	...do.....	340.0	110.1	207.8	60.0
281634	Litharge.....	...do.....	156.1	53.7	99.2	29.7
335697	Zinc and zinc-base alloy mill shapes and forms.....	...do.....	(D)	(D)	(D)	(D)
362406	Carbon and graphite electrodes and other carbon and graphite products for electrical use.....		(X)	(D)	(X)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	232.7	(X)	<sup>1</sup> 151.3
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	19.3	(X)	14.1
	INDUSTRY 3692.--PRIMARY BATTERIES, DRY AND WET					
	Materials, parts, containers, and supplies, total.....		(X)	115.1	(X)	108.9
335697	Zinc and zinc-base alloy mill shapes and forms.....	1,000 s. tons.	21.0	10.6	19.1	9.0
362406	Carbon and graphite electrodes and other carbon and graphite products for electrical use.....		(X)	5.6	(X)	5.0
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	96.5	(X)	93.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	2.4	(X)	1.1
	INDUSTRY 3694.--ENGINE ELECTRICAL EQUIPMENT					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 803.7	(X)	548.3
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	146.1	38.2	105.6	21.7
331012	Sheet and strip.....	...do.....	193.7	41.8	128.4	23.1
331017	Wire and wire products.....	...do.....	8.0	2.9	(NA)	4.6
331013	Plates.....	...do.....	29.9	10.9	26.8	5.8
331019	All other carbon steel mill shapes and forms.....	...do.....				
331020	Alloy steel, except stainless.....	...do.....	12.2	6.0	3.0	.7
331031	Stainless steel.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	62.5	56.4	49.9	28.7
335791	Aluminum content.....	Million lb....				
	Copper and copper base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	61.9	40.9	42.0	27.0
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	12.2	9.9	15.6	9.8
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	11.1	11.0		
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	2.5	1.5	.8	.7
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	4.1	2.7	(NA)	1.8
	Primary metals:					
331051	Pig iron.....	1,000 s. tons.	(D)	(D)	(D)	(D)
333401	Aluminum and aluminum-base alloy refinery shapes.....	...do.....	(D)	(D)	25.5	10.4
	Castings (rough and semifinished): <sup>3</sup>					
332011	Iron (gray and malleable).....	...do.....	25.0	11.0	13.1	4.7
336100	Aluminum and aluminum-base alloy.....	Million lb....	22.5	15.4	13.7	7.7
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)	-	-
	Bearings:					
356218	Ball.....		(X)	14.3	(X)	13.0
356201	Roller.....		(X)	3.9		
970099	All other materials and components, parts, containers, and sup- plies consumed.....		(X)	481.0	(X)	<sup>1</sup> 356.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	43.8	(X)	31.8

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3699.--ELECTRICAL EQUIPMENT AND SUPPLIES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	219.2	(X)	128.6
	Mill shapes and forms (except castings):					
331001	Carbon steel.....	1,000 s. tons.	6.3	2.0	.7	.3
331020	Alloy steel (except stainless).....	...do.....	.4	.6	.8	.6
331031	Stainless steel.....	...do.....	2.1	2.3	.4	.3
335001	Aluminum and aluminum-base alloy.....	Million lb....	7.6	3.8	10.7	4.3
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	26.8	28.8	27.0	21.4
335791	Aluminum content.....	Million lb....	(NA)		(NA)	
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	...do.....	4.7	4.3	.8	1.1
335105	Brass mill shapes (rod, sheet, bar, etc.).....	...do.....	10.0	6.5	8.0	3.9
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	98.3	(X)	67.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	72.6	(X)	29.6

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.<sup>3</sup>Excludes quantities produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3691.--STORAGE BATTERIES						
	Purchased fuels and electric energy.....		(X)	12.3	(X)	8.3
	Purchased fuels, total.....		(X)	4.0	(X)	2.7
121005	Coal.....	1,000 s. tons....	2.0	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	149.0	.6	(NA)	(NA)
291141	Distillate.....	..do.....	45.0	.2	(NA)	(NA)
291151	Residual.....	..do.....	104.0	.5	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.2	1.9	(NA)	(NA)
960011	Other fuels.....		(X)	.6	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.9	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	749.7	8.3	527.8	5.6
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(Z)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.5	-	2.0	-
INDUSTRY 3692.--PRIMARY BATTERIES, DRY AND WET						
	Purchased fuels and electric energy.....		(X)	2.2	(X)	(NA)
	Purchased fuels, total.....		(X)	.7	(X)	(NA)
121005	Coal.....	1,000 s. tons....	5.7	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	54.6	.3	(NA)	(NA)
291141	Distillate.....	..do.....	38.0	.2	(NA)	(NA)
291151	Residual.....	..do.....	16.6	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.4	.3	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	119.5	1.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.4	-	(NA)	(NA)
INDUSTRY 3693.--X-RAY APPARATUS AND TUBES						
	Purchased fuels and electric energy.....		(X)	1.5	(X)	(NA)
	Purchased fuels, total.....		(X)	.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	10.8	(Z)	(NA)	(NA)
291141	Distillate.....	..do.....	-	-	(NA)	(NA)
291151	Residual.....	..do.....	10.8	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.6	.3	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	73.8	1.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.3	-	(NA)	(NA)
INDUSTRY 3694.--ENGINE ELECTRICAL EQUIPMENT						
	Purchased fuels and electric energy.....		(X)	12.3	(X)	(NA)
	Purchased fuels, total.....		(X)	4.5	(X)	(NA)
121005	Coal.....	1,000 s. tons....	101.8	1.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	64.1	.3	(NA)	(NA)
291141	Distillate.....	..do.....	48.2	.2	(NA)	(NA)
291151	Residual.....	..do.....	15.9	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.8	2.2	(NA)	(NA)
960011	Other fuels.....		(X)	.6	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	709.3	7.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	3.0	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

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## **MAJOR GROUP 37**

### **Transportation Equipment**

- 37A Motor vehicles and equipment
- 37B Aerospace equipment, including parts
- 37C Ship and boat building, railroad and miscellaneous transportation equipment

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and snowmobiles. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.



TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees <sup>1</sup>		Production workers			Value added by manufacture <sup>2</sup>	Cost of materials <sup>3</sup>	Value of industry shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: <sup>5</sup>											
1972.....	9,183	3,848	1,815.2	21,526.6	1,246.2	2,527.4	12,848.6	39,799.4	55,767.8	94,704.9	2,660.2
1967.....	7,734	3,539	1,935.5	16,342.4	1,336.5	2,745.6	9,918.2	28,173.9	40,419.9	68,512.3	1,822.4
1963 <sup>6</sup> .....	7,394	3,006	1,639.8	12,283.4	1,180.2	2,355.7	7,388.9	21,854.0	31,790.0	53,581.0	981.1
1958.....	6,810	2,788	1,641.9	9,793.2	1,138.6	2,274.9	6,037.3	15,315.3	(NA)	3,828.9	629.6
1954.....	(NA)	(NA)	1,765.9	8,697.9	1,327.8	2,710.9	6,006.0	13,428.0	(NA)	(NA)	924.9
Administrative and auxiliary units:											
1972.....	381	230	96.2	1,646.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967.....	251	185	101.4	1,168.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 <sup>6</sup> .....	214	154	88.6	877.4	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958.....	176	114	79.4	607.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 <sup>7</sup> .....	(NA)	(NA)	60.4	397.8	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972.....	8,802	3,618	1,719.0	19,880.0	1,246.2	2,527.4	12,848.6	39,799.4	55,767.8	94,704.9	2,660.2
1967.....	7,483	3,354	1,834.1	15,173.7	1,336.5	2,745.6	9,918.2	28,173.9	40,419.9	68,512.3	1,822.4
1963 <sup>6</sup> .....	7,180	2,852	1,551.2	11,406.0	1,108.2	2,355.7	7,388.9	21,854.0	31,790.0	53,581.0	981.0
1958.....	6,634	2,674	1,562.4	9,185.7	1,138.6	2,274.9	6,037.3	15,315.3	(NA)	38,289.3	629.6
1954.....	5,349	2,318	1,705.5	8,300.1	1,327.8	2,710.9	6,006.0	13,428.0	(NA)	(NA)	924.9
Operating manufacturing establishments:											
1971 <sup>7</sup> .....	(NA)	(NA)	1,620.8	16,697.8	1,186.0	2,370.8	11,047.9	34,845.0	51,251.9	86,920.4	1,258.2
1970 <sup>7</sup> .....	(NA)	(NA)	1,688.6	16,072.6	1,200.8	2,393.3	10,230.0	29,990.2	42,293.2	72,589.5	1,611.6
1969 <sup>7</sup> .....	(NA)	(NA)	1,919.7	17,650.7	1,398.1	2,823.0	11,454.6	34,053.2	48,012.3	81,786.0	1,942.6
1968 <sup>7</sup> .....	(NA)	(NA)	1,887.6	16,811.2	1,376.5	2,893.3	11,135.4	32,866.2	46,997.1	79,494.3	1,599.0
1966 <sup>7</sup> .....	(NA)	(NA)	1,829.7	14,852.4	1,354.5	2,843.8	9,857.8	28,277.1	41,936.1	69,422.7	1,879.8
1965 <sup>7</sup> .....	(NA)	(NA)	1,683.8	13,273.3	1,240.7	2,639.8	8,813.2	26,330.9	39,901.2	65,842.7	1,506.1
1964 <sup>7</sup> .....	(NA)	(NA)	1,563.2	11,887.2	1,119.8	2,369.7	7,771.5	22,733.9	33,189.7	55,688.9	1,176.6
1962 <sup>7</sup> .....	(NA)	(NA)	1,600.7	11,333.6	1,128.8	2,367.2	7,169.0	20,871.8	30,621.9	51,341.6	856.3
1961 <sup>7</sup> .....	(NA)	(NA)	1,505.5	10,112.6	1,055.8	2,156.7	6,313.4	17,432.5	26,042.3	43,549.3	720.1
1960 <sup>7</sup> .....	(NA)	(NA)	1,592.6	10,360.4	1,160.7	2,392.9	6,841.5	18,368.4	(NA)	(NA)	730.9
1959 <sup>7</sup> .....	(NA)	(NA)	1,615.4	10,254.4	1,172.1	2,453.8	6,696.1	18,034.2	(NA)	(NA)	723.1
1957 <sup>9</sup> .....	(NA)	(NA)	1,901.2	10,490.7	1,402.0	2,845.1	7,177.6	18,491.7	(NA)	(NA)	1,142.4
1956 <sup>9</sup> .....	(NA)	(NA)	1,792.7	9,706.6	1,358.0	2,793.3	6,743.2	16,633.3	(NA)	(NA)	1,437.4
1955 <sup>9</sup> .....	(NA)	(NA)	1,812.6	9,407.1	1,417.7	2,958.9	6,842.5	17,070.9	(NA)	(NA)	848.8
1953 <sup>9</sup> .....	(NA)	(NA)	1,911.7	8,986.8	1,529.9	3,155.0	6,731.1	14,534.3	(NA)	(NA)	709.6
1952 <sup>9</sup> .....	(NA)	(NA)	1,650.2	7,423.3	1,317.4	2,749.6	5,585.4	12,042.2	(NA)	(NA)	(NA)
1951 <sup>9</sup> .....	3,393	(NA)	1,468.5	6,066.7	1,199.6	2,448.1	4,672.3	9,788.9	(NA)	(NA)	599.5
1950 <sup>9</sup> .....	2,780	(NA)	1,218.4	4,679.5	1,005.9	2,060.3	3,656.5	8,546.8	(NA)	(NA)	343.4
1949 <sup>9</sup> .....	(NA)	(NA)	1,140.0	4,098.4	935.6	1,873.1	3,163.3	7,054.4	(NA)	(NA)	263.7
1947.....	3,703	(NA)	1,174.5	3,694.9	981.1	1,961.4	2,920.8	5,841.7	(NA)	(NA)	355.0
1939 <sup>10</sup> .....	2,012	(NA)	(NA)	(NA)	544.6	(NA)	867.0	1,772.6	(NA)	(NA)	(NA)
1937 <sup>11</sup> .....	1,958	(NA)	(NA)	(NA)	662.2	(NA)	1,028.7	1,986.5	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

<sup>1</sup>The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.<sup>2</sup>For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.<sup>3</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.<sup>4</sup>The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.<sup>5</sup>Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.<sup>6</sup>Data for 1963 to 1972 have been revised by the exclusion of automotive stamping plants operated by automobile producing companies. As a result of this revision, these plants are classified in the metals stampings industry. Data prior to 1963 have not been revised.<sup>7</sup>Figures for 1958 to 1972 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification system. Prior to 1958, establishments primarily engaged in the manufacture of truck and bus bearings, convertible tops for automobiles, rebuilt automotive parts, and aircraft and related engine and power take-off gears were excluded from these data. Establishments primarily engaged in the manufacture of parachutes are included in data prior to 1958.<sup>8</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.<sup>9</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.<sup>10</sup>The figures for 1939, but not for 1937, have been revised for comparability with the figures for later years. The principal revision is the exclusion of data for railroad repair shops reclassified as nonmanufacturing establishments. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,794 million.<sup>11</sup>The figures for 1935 and earlier years are not sufficiently comparable with those for later years to be shown in this table because the earlier figures exclude data for establishments primarily engaged in the manufacture of aircraft engines and for a number of large establishments classified prior to 1937 in other industry groups.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
37	TRANSPORTATION EQUIPMENT . . . . .	8 802	3 618	1 719.0	19 880.0	1 246.2	2 527.4	12 848.6	39 799.4	55 767.8	94 704.9	2 660.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 421	582	265.1	2 957.4	179.7	357.5	1 746.5	5 406.5	6 583.5	11 765.6	271.6	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	467	180	101.1	1 118.7	62.0	125.5	570.1	1 768.2	1 607.5	3 306.0	55.2	(NA)	(NA)
	MAINE . . . . .	69	15	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	20	6	1.8	14.6	1.6	3.0	11.6	25.5	18.5	42.9	2.3	(NA)	(NA)
	VERMONT . . . . .	8	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS . . . . .	179	65	23.1	253.0	15.9	32.0	147.8	477.1	522.3	982.1	14.9	(NA)	(NA)
	RHODE ISLAND . . . . .	37	17	1.6	11.7	1.3	2.7	9.3	23.9	23.4	46.5	1.6	(NA)	(NA)
	CONNECTICUT . . . . .	154	72	69.4	794.2	38.9	79.8	370.5	1 162.1	1 006.4	2 122.0	29.6	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	954	402	164.0	1 838.7	117.8	232.0	1 176.4	3 638.3	4 976.0	8 459.7	216.4	(NA)	(NA)
	NEW YORK . . . . .	418	159	69.8	842.8	49.1	99.3	528.7	1 366.0	1 864.7	3 107.1	129.5	(NA)	(NA)
	NEW JERSEY . . . . .	236	89	26.0	289.7	20.4	40.9	208.5	917.7	1 687.5	2 594.4	31.7	(NA)	(NA)
	PENNSYLVANIA . . . . .	300	154	68.2	706.2	48.3	91.8	439.1	1 354.6	1 423.8	2 762.1	55.2	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	2 547	1 265	769.0	9 194.0	605.9	1 257.0	6 769.0	19 497.2	32 349.0	51 541.0	1 888.0	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	1 882	1 000	648.5	7 911.6	518.8	1 079.1	5 948.9	16 335.2	27 090.5	43 300.9	1 777.7	(NA)	(NA)
	OHIO . . . . .	444	254	161.4	1 971.8	123.5	258.8	1 409.1	3 812.9	5 403.5	9 152.7	391.7	(NA)	(NA)
	INDIANA . . . . .	408	220	95.0	1 083.2	73.0	147.3	767.2	1 947.8	2 415.1	4 323.4	143.1	(NA)	(NA)
	ILLINOIS . . . . .	281	138	48.1	486.9	38.1	75.9	355.6	1 243.4	1 797.3	2 997.6	38.7	(NA)	(NA)
	MICHIGAN . . . . .	589	314	310.0	3 992.3	256.4	540.9	3 124.3	8 545.0	15 690.2	24 259.2	1 160.1	(NA)	(NA)
	WISCONSIN . . . . .	160	74	34.1	377.4	27.9	56.1	292.8	786.0	1 784.5	2 568.0	44.2	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	665	265	120.5	1 282.4	87.1	177.9	820.1	3 162.0	5 258.5	8 240.1	110.3	(NA)	(NA)
	MINNESOTA . . . . .	152	50	9.8	88.4	8.0	15.5	62.9	221.7	426.9	637.1	18.3	(NA)	(NA)
	IOWA . . . . .	95	43	7.4	59.5	5.6	11.8	39.6	157.4	246.3	389.7	33.0	(NA)	(NA)
	MISSOURI . . . . .	192	84	69.4	809.7	47.2	96.7	490.7	2 020.1	3 569.9	5 473.9	44.0	(NA)	(NA)
	NORTH DAKOTA . . . . .	11	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH DAKOTA . . . . .	22	4	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA . . . . .	38	16	3.4	26.4	2.7	5.6	18.0	68.5	49.0	117.0	2.2	(NA)	(NA)
	KANSAS . . . . .	155	66	29.9	294.2	23.1	47.4	206.0	684.0	928.4	1 568.1	12.5	(NA)	(NA)
	SOUTH REGION . . . . .	2 535	955	328.0	3 257.3	242.8	487.1	2 127.0	6 274.3	9 073.4	15 387.0	284.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	1 170	408	149.8	1 559.2	109.5	221.6	1 006.6	3 148.2	5 210.9	8 328.9	124.5	(NA)	(NA)
	DELAWARE . . . . .	15	6	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND . . . . .	109	32	17.3	194.4	13.2	26.8	138.9	440.8	802.1	1 246.4	14.2	(NA)	(NA)
	VIRGINIA . . . . .	113	36	33.3	327.3	28.7	58.0	271.2	496.7	435.8	919.8	30.3	(NA)	(NA)
	WEST VIRGINIA . . . . .	25	13	2.5	26.6	2.1	4.3	21.2	57.8	74.7	130.4	1.6	(NA)	(NA)
	NORTH CAROLINA . . . . .	125	45	8.7	60.1	7.0	13.5	41.4	188.7	163.8	322.7	5.9	(NA)	(NA)
	SOUTH CAROLINA . . . . .	64	33	3.5	24.8	2.7	5.4	16.5	46.2	40.2	86.5	10.3	(NA)	(NA)
	GEORGIA . . . . .	156	65	34.0	381.1	24.1	49.4	242.7	901.6	2 246.3	3 195.1	17.7	(NA)	(NA)
	FLORIDA . . . . .	562	178	40.7	431.9	23.1	47.0	183.6	700.2	397.3	1 061.8	39.2	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	415	198	74.2	678.6	59.3	117.4	482.4	1 333.9	1 977.0	3 265.3	81.7	(NA)	(NA)
	KENTUCKY . . . . .	69	33	11.1	125.7	9.2	19.6	95.4	416.4	921.6	1 313.0	19.2	(NA)	(NA)
	TENNESSEE . . . . .	159	72	21.9	162.4	18.0	35.6	122.3	379.8	389.4	755.6	26.7	(NA)	(NA)
	ALABAMA . . . . .	126	60	18.1	164.8	13.2	26.0	108.0	269.9	246.2	515.7	15.9	(NA)	(NA)
	MISSISSIPPI . . . . .	61	33	23.1	225.7	19.0	36.3	156.8	267.8	419.9	681.0	19.9	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	950	349	104.0	1 019.5	74.0	148.1	638.0	1 792.2	1 885.5	3 792.8	78.5	(NA)	(NA)
	ARKANSAS . . . . .	92	34	6.0	39.2	5.0	9.5	29.6	93.6	117.7	205.7	8.6	(NA)	(NA)
	LOUISIANA . . . . .	170	72	21.8	204.1	17.4	36.7	146.5	288.1	196.1	483.6	14.4	(NA)	(NA)
	OKLAHOMA . . . . .	139	46	8.8	77.9	6.7	13.3	51.3	150.0	115.5	271.9	4.2	(NA)	(NA)
	TEXAS . . . . .	549	197	67.4	698.3	45.0	88.5	410.6	1 260.6	1 456.2	2 831.6	51.2	(NA)	(NA)
	WEST REGION . . . . .	2 299	816	356.9	4 471.2	217.7	425.8	2 206.1	8 621.5	7 761.9	16 011.2	215.9	(NA)	(NA)
	MOUNTAIN DIVISION . . . . .	336	98	29.6	345.0	20.6	41.8	220.1	621.9	475.0	1 079.9	20.5	(NA)	(NA)
	MONTANA . . . . .	23	3	2.2	1.7	1.2	4	1.1	3.3	3.6	6.8	1	(NA)	(NA)
	IDAHO . . . . .	36	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO . . . . .	84	30	11.7	146.8	9.0	19.0	107.9	259.1	182.2	440.2	5.8	(NA)	(NA)
	NEW MEXICO . . . . .	27	7	1.5	14.2	1.1	2.1	8.5	18.9	19.8	38.7	1.7	(NA)	(NA)
	ARIZONA . . . . .	91	29	8.7	104.8	6.1	12.5	69.8	170.5	156.5	316.2	4.3	(NA)	(NA)
	UTAH . . . . .	57	18	6.1	68.5	3.0	6.2	25.7	151.0	87.7	235.3	9.1	(NA)	(NA)
	PACIFIC DIVISION . . . . .	1 963	718	327.3	4 126.2	197.1	384.0	1 986.0	7 999.6	7 286.8	14 931.3	195.4	(NA)	(NA)
	WASHINGTON . . . . .	240	76	51.2	641.9	27.3	53.5	260.8	1 138.2	1 219.0	2 548.1	20.2	(NA)	(NA)
	OREGON . . . . .	159	49	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA . . . . .	1 543	590	268.3	3 411.9	163.2	318.2	1 669.0	6 697.2	5 835.1	11 988.9	166.7	(NA)	(NA)
	HAWAII . . . . .	8	2	2	2.1	2	3	1.4	2.7	2.5	5.2	(Z)	(NA)	(NA)
371	MOTOR VEHICLES AND EQUIPMENT . . . . .	3 391	1 547	807.5	9 460.5	669.2	1 386.9	7 419.9	22 056.2	42 125.2	63 921.4	2 093.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	538	228	80.6	880.2	66.2	131.4	687.1	2 227.2	3 917.0	6 110.3	158.8	80.6	1 554.3
	NEW ENGLAND DIVISION . . . . .	114	45	9.7	96.3	8.0	16.1	73.0	263.1	400.5	658.1	10.3	10.1	190.3
	NEW HAMPSHIRE . . . . .	7	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	MASSACHUSETTS . . . . .	60	25	5.4	63.3	4.4	9.3	47.8	188.6	347.3	535.7	6.7	FF	(0)
	RHODE ISLAND . . . . .	11	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	5	6.7
	CONNECTICUT . . . . .	27	8	2.2	16.5	1.7	3.4	12.1	41.6	26.5	63.8	1.2	4.5	68.3
	MIDDLE ATLANTIC DIVISION . . . . .	424	183	70.9	783.9	58.3	115.2	614.2	1 964.1	3 516.5	5 452.2	148.5	70.6	1 358.0
	NEW YORK . . . . .	186	71	33.1	393.7	27.5	56.6	315.3	766.0	1 324.4	2 084.9	109.3	FF	(0)
	NEW JERSEY . . . . .	101	43	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	PENNSYLVANIA . . . . .	137	69	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	NORTH CENTRAL REGION . . . . .	1 313	732	586.1										



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
371	MOTOR VEHICLES AND EQUIPMENT--CON.													
	SOUTH REGION . . . . .	798	318	92.6	892.8	77.3	158.0	691.2	2 771.4	5 925.2	8 609.6	102.7	70.9	1 394.0
	SOUTH ATLANTIC DIVISION . . . . .	299	120	47.5	500.5	40.2	82.5	395.8	1 644.6	3 935.6	5 537.3	43.2	39.3	873.7 <sup>9</sup>
	DELAWARE . . . . .	5	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MARYLAND . . . . .	25	10	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	VIRGINIA . . . . .	34	16	4.0	37.9	3.3	7.1	28.9	131.8	232.8	357.8	(0)	3.0	63.3
	WEST VIRGINIA . . . . .	13	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	NORTH CAROLINA . . . . .	49	24	6.1	42.6	4.8	9.4	29.5	152.6	127.6	250.4	5.1	3.3	39.8
	SOUTH CAROLINA . . . . .	10	5	1.3	8.1	1.1	2.3	6.3	14.7	16.3	31.2	.4	CC	(0)
	GEORGIA . . . . .	64	30	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	FLORIDA . . . . .	99	26	2.1	16.0	1.7	3.3	11.2	28.6	31.5	59.9	1.8	1.1	11.8
	EAST SOUTH CENTRAL DIVISION . . . . .	169	96	27.9	246.4	23.0	47.3	186.8	726.7	1 239.0	1 924.3	41.8	18.3	283.9
	KENTUCKY . . . . .	39	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	TENNESSEE . . . . .	67	39	12.1	86.1	9.9	19.7	65.8	232.4	220.8	442.3	20.5	6.3	76.1
	ALABAMA . . . . .	43	25	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.8	35.7
	MISSISSIPPI . . . . .	20	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WEST SOUTH CENTRAL DIVISION . . . . .	330	102	17.2	145.9	14.1	28.2	108.6	400.2	750.6	1 148.0	17.7	13.1	235.6
	ARKANSAS . . . . .	42	13	2.9	18.8	2.4	4.8	14.2	52.4	48.1	99.2	6.7	CC	(0)
	LOUISIANA . . . . .	24	6	.6	4.6	.5	.9	3.2	9.0	8.8	17.6	.3	CC	(0)
	OKLAHOMA . . . . .	60	17	2.7	20.6	2.1	4.2	13.9	52.1	46.9	98.4	2.3	2.0	21.3
	TEXAS . . . . .	204	66	11.0	102.0	9.1	18.3	77.3	286.7	646.9	932.9	8.4	FF	(0)
	WEST REGION . . . . .	742	269	48.1	494.5	39.3	78.0	370.4	1 331.3	3 215.5	4 510.9	60.1	38.6	703.6
	MOUNTAIN DIVISION . . . . .	112	29	3.1	22.6	2.5	4.6	15.5	59.9	61.2	118.6	2.1	1.9	20.5
	COLORADO . . . . .	30	12	1.6	12.5	1.3	2.4	8.4	28.4	32.1	58.6	1.1	1.3	12.2
	ARIZONA . . . . .	27	4	.3	2.2	.2	.5	1.5	4.4	5.4	9.7	.2	.2	1.3
	UTAH . . . . .	19	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	6.0
	PACIFIC DIVISION . . . . .	630	240	45.0	471.9	36.7	73.4	354.9	1 271.4	3 154.3	4 392.3	58.0	36.7	683.2
	WASHINGTON . . . . .	37	14	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	OREGON . . . . .	63	19	3.3	32.9	2.8	5.6	26.0	90.0	128.5	215.4	4.0	1.8	23.5
	CALIFORNIA . . . . .	527	207	39.4	416.5	32.2	64.5	314.3	1 121.1	2 898.0	3 991.8	52.9	33.2	639.1
372	AIRCRAFT AND PARTS . . . . .	1 094	555	438.7	5 281.7	259.5	523.5	2 613.6	9 123.6	6 834.8	15 451.4	169.0	(NA)	(NA)
	NORTHEAST REGION . . . . .	251	138	107.8	1 305.2	60.3	123.9	603.6	1 879.2	1 606.2	3 299.1	43.1	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	110	69	63.7	745.8	35.9	73.9	350.0	1 072.8	1 024.7	2 030.7	27.0	(NA)	(NA)
	MAINE . . . . .	4	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	3	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VERMONT . . . . .	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS . . . . .	20	12	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CONNECTICUT . . . . .	79	50	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	141	69	44.1	559.4	24.3	50.0	253.6	806.3	581.4	1 268.4	16.1	(NA)	(NA)
	NEW YORK . . . . .	76	36	27.2	368.5	13.7	28.1	152.9	468.0	418.1	765.9	7.4	(NA)	(NA)
	NEW JERSEY . . . . .	33	16	5.6	65.6	3.5	7.0	34.9	109.6	54.3	165.1	3.6	(NA)	(NA)
	PENNSYLVANIA . . . . .	32	17	11.3	125.4	7.2	14.8	65.8	228.7	109.0	337.4	5.1	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	242	141	101.4	1 217.7	59.0	121.8	597.3	2 185.8	1 449.6	3 467.3	47.2	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	168	107	56.1	699.9	31.5	64.0	331.6	1 201.3	828.1	2 026.3	37.0	(NA)	(NA)
	OHIO . . . . .	72	50	33.2	418.9	17.5	36.1	180.6	727.3	501.9	1 235.8	22.9	(NA)	(NA)
	INDIANA . . . . .	29	19	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ILLINOIS . . . . .	16	10	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MICHIGAN . . . . .	45	24	2.6	28.2	1.7	3.3	15.2	44.0	37.1	79.4	2.3	(NA)	(NA)
	WISCONSIN . . . . .	6	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	74	34	45.4	517.9	27.6	57.8	265.7	984.5	621.5	1 441.0	10.2	(NA)	(NA)
	MINNESOTA . . . . .	7	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	IOWA . . . . .	4	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSOURI . . . . .	15	9	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	KANSAS . . . . .	44	19	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION . . . . .	173	103	79.0	871.4	45.8	90.4	445.1	1 321.1	1 271.9	2 768.2	25.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	85	53	30.2	333.8	16.7	34.0	152.1	408.0	599.2	1 053.3	13.3	(NA)	(NA)
	DELAWARE . . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND . . . . .	4	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VIRGINIA . . . . .	4	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CAROLINA . . . . .	6	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH CAROLINA . . . . .	2	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	GEORGIA . . . . .	12	10	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	FLORIDA . . . . .	55	30	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	10	7	6.9	61.1	4.7	9.5	39.4	90.0	68.3	163.4	4.9	(NA)	(NA)
	TENNESSEE . . . . .	2	2	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ALABAMA . . . . .	6	4	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	78	43	41.8	476.5	24.3	47.0	253.6	823.1	604.4	1 551.5	7.0	(NA)	(NA)
	OKLAHOMA . . . . .	15	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS . . . . .	60	35	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST REGION . . . . .	428	173	150.5	1 887.4	94.4	187.4	967.7	3 737.6	2 507.1	5 916.7	52.9	(NA)	(NA)
	MOUNTAIN DIVISION . . . . .	47	23	7.9	95.7	6.1	13.0	71.8	170.1	118.1	280.5	2.1	(NA)	(NA)
	COLORADO . . . . .	10	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEW MEXICO . . . . .	6	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ARIZONA . . . . .	25	15	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	UTAH . . . . .	4	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	381	150	142.6	1 791.7	88.3	174.4	895.8	3 567.5	2 389.0	5 636.2	50.8	(NA)	(NA)
	WASHINGTON . . . . .	38	19	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OREGON . . . . .	7	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA . . . . .	333	130	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
373	SHIP, BOAT BUILDING, REPAIRING . .	2 232	645	185.2	1 703.6	151.3	297.4	1 265.5	2 398.2	1 951.7	4 329.2	179.1	(NA)	(NA)
	NORTHEAST REGION . . . . .	427	125	39.7	390.5	27.6	54.1	231.8	580.1	310.0	887.8	31.9	46.3	459.9
	NEW ENGLAND DIVISION . . . . .	200	53	23.5	238.7	14.7	28.8	120.1	341.7	132.1	472.6	14.6	FF	(0)
	MAINE . . . . .	57	10	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MASSACHUSETTS . . . . .	81	24	7.9	73.4	5.7	11.1	45.1	89.1	31.8	120.6	2.5	FF	(0)
	RHODE ISLAND . . . . .	23	9	.8	6.1	.7	1.4	5.1	10.9	10.7	21.2	.3	.6	4.4
	CONNECTICUT . . . . .	32	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MIDDLE ATLANTIC DIVISION . . . . .	227	72	16.2	151.8	12.9	25.3	111.7	238.4	177.9	415.2	17.3	FF	(0)
	NEW YORK . . . . .	114	35	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	NEW JERSEY . . . . .	86	26	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	5.5	61.7
	PENNSYLVANIA . . . . .	27	11	7.4	72.6	5.6	11.2	51.9	109.3	79.4	189.2	7.1	FF	(0)
	NORTH CENTRAL REGION . . . . .	295	88	13.2	101.3	11.2	21.4	78.0	181.0	185.0	361.1	9.6	12.6	124.4
	EAST NORTH CENTRAL DIVISION . . . . .	196	57	8.2	66.6	7.2	13.7	52.5	117.7	111.3	225.1	7.4	FF	(0)
	OHIO . . . . .	40	11	1.8	16.6	1.7	3.2	14.7	27.6	17.3	44.7	1.1	2.3	21.4
	INDIANA . . . . .	30	10	1.8	15.9	1.5	2.9	12.0	30.6	32.2	62.3	1.4	2.0	20.0
	ILLINOIS . . . . .	28	12	.9	6.8	.8	1.4	5.3	12.1	12.2	22.5	.5	CC	(0)
	MICHIGAN . . . . .	60	13	1.8	14.8	1.6	3.1	11.4	26.2	29.9	55.4	1.2	FF	(0)
	WISCONSIN . . . . .	38	11	1.8	12.5	1.6	3.2	9.2	21.1	19.8	40.3	3.1	EE	(0)
	WEST NORTH CENTRAL DIVISION . . . . .	99	31	4.9	34.7	4.0	7.7	25.5	63.3	73.6	136.0	2.3	FF	(0)
	MINNESOTA . . . . .	35	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	9.5
	MISSOURI . . . . .	34	12	2.3	17.4	1.8	3.6	12.5	25.9	34.3	60.2	1.0	1.7	20.8
	KANSAS . . . . .	19	5	.7	5.3	.6	1.2	4.2	13.0	16.1	29.1	.3	AA	(0)
	SOUTH REGION . . . . .	993	305	108.6	987.4	92.2	184.1	779.1	1 285.3	1 177.3	2 453.1	115.2	85.1	803.6
	SOUTH ATLANTIC DIVISION . . . . .	549	140	49.5	454.6	42.1	84.2	370.9	630.6	408.2	1 030.4	52.2	48.2	463.0
	MARYLAND . . . . .	67	12	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	10.0	107.2
	VIRGINIA . . . . .	55	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	NORTH CAROLINA . . . . .	46	12	2.0	12.6	1.6	3.2	9.1	27.1	24.6	51.7	.4	1.3	11.7
	SOUTH CAROLINA . . . . .	27	13	.8	6.6	.7	1.5	5.1	13.1	11.9	24.3	(0)	.9	7.9
	GEORGIA . . . . .	28	6	.8	5.9	.7	1.3	4.7	11.0	8.7	19.6	.1	1.5	14.8
	FLORIDA . . . . .	317	85	11.2	86.6	9.5	19.1	68.9	144.2	115.0	253.2	23.1	10.3	99.4
	EAST SOUTH CENTRAL DIVISION . . . . .	139	49	26.6	251.0	22.3	41.9	181.5	284.1	437.6	720.6	21.2	FF	(0)
	KENTUCKY . . . . .	19	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.5	5.1
	TENNESSEE . . . . .	57	17	2.6	16.9	2.1	4.0	13.0	32.6	33.3	64.9	1.4	EE	(0)
	ALABAMA . . . . .	37	13	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.4	24.1
	MISSISSIPPI . . . . .	26	13	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	WEST SOUTH CENTRAL DIVISION . . . . .	305	116	32.6	281.8	27.9	58.0	226.8	370.6	331.6	702.2	41.8	FF	(0)
	ARKANSAS . . . . .	22	10	1.2	7.7	.9	1.5	5.0	14.2	16.4	29.5	.8	.5	3.3
	LOUISIANA . . . . .	129	60	18.6	166.1	16.3	34.6	138.7	227.8	181.5	409.5	14.0	13.0	136.1
	OKLAHOMA . . . . .	18	3	.2	1.1	.2	.4	.9	1.9	2.7	4.6	.1	(NA)	(NA)
	TEXAS . . . . .	136	43	12.6	106.9	10.5	21.5	82.1	126.6	130.9	258.6	26.9	9.0	92.0
	WEST REGION . . . . .	517	127	23.7	224.4	20.3	37.9	176.6	351.8	279.4	627.3	22.5	25.2	317.3
	MOUNTAIN DIVISION . . . . .	36	3	.4	2.2	.3	.6	1.6	5.7	8.9	14.4	.3	.2	1.4
	ARIZONA . . . . .	8	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	481	124	23.4	222.2	20.0	37.3	175.0	346.1	270.4	612.9	22.2	25	315.9
	WASHINGTON . . . . .	130	35	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	OREGON . . . . .	42	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.7	45.0
	CALIFORNIA . . . . .	294	78	14.1	133.0	12.1	22.5	105.3	198.2	159.5	354.8	14.9	14.3	177.0
	HAWAII . . . . .	5	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
374	RAILROAD EQUIPMENT . . . . .	163	103	50.8	529.1	38.4	72.7	371.9	1 113.3	1 341.2	2 446.2	55.3	(NA)	(NA)
	NORTHEAST REGION . . . . .	40	22	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	21.4	237.5
	MIDDLE ATLANTIC DIVISION . . . . .	38	22	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	21.4	237.5
	NEW YORK . . . . .	7	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.3	38.5
	NEW JERSEY . . . . .	5	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	PENNSYLVANIA . . . . .	26	18	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	17.2	190.1
	NORTH CENTRAL REGION . . . . .	79	51	23.7	257.0	18.3	35.2	187.9	585.5	635.5	1 233.4	19.8	27.4	460.9
	EAST NORTH CENTRAL DIVISION . . . . .	63	39	19.5	219.6	15.2	29.4	159.4	557.5	512.9	1 046.4	18.0	24.0	445.6
	OHIO . . . . .	11	9	2.8	28.2	2.2	4.2	22.0	49.2	43.3	91.6	6.2	4.1	53.8
	INDIANA . . . . .	7	6	1.7	17.2	1.3	2.5	13.0	38.3	48.9	85.1	1.3	4.5	40.2
	ILLINOIS . . . . .	35	18	13.1	156.2	10.2	20.0	112.5	443.2	382.8	804.4	10.1	FF	(0)
	MICHIGAN . . . . .	6	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WISCONSIN . . . . .	4	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	WEST NORTH CENTRAL DIVISION . . . . .	16	12	4.1	37.4	3.2	5.8	28.5	28.0	122.6	187.0	1.7	3.4	15.3
	MINNESOTA . . . . .	4	3	.2	1.4	.1	.2	.8	2.8	1.5	4.3	(0)	(NA)	(NA)
	MISSOURI . . . . .	5	2	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	KANSAS . . . . .	5	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	SOUTH REGION . . . . .	31	22	4.6	42.9	3.7	7.5	32.6	85.4	161.6	245.1	9.0	FF	(0)
	SOUTH ATLANTIC DIVISION . . . . .	14	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WEST VIRGINIA . . . . .	2	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	GEORGIA . . . . .	5	2	.3	2.0	.2	.5	1.6	4.8	6.4	11.2	(2)	BB	(0)
	EAST SOUTH CENTRAL DIVISION . . . . .	9	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	KENTUCKY . . . . .	2	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	ALABAMA . . . . .	3	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	WEST SOUTH CENTRAL DIVISION . . . . .	8	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	ARKANSAS . . . . .	1	1	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
	TEXAS . . . . .	7	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
	WEST REGION . . . . .	13	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	PACIFIC DIVISION . . . . .	10	6	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	WASHINGTON . . . . .	1	1	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
	DREGON . . . . .	3	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
	CALIFORNIA . . . . .	6	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972											1967	
		Establishments		All employees		Production workers			Value added by manufacture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees	Value added by manufacture
		Total	With 20 employees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
375	MOTDRCYCLES, 8ICYCLES AND PARTS. .	222	52	17.6	139.6	15.0	29.1	106.2	315.2	373.0	659.5	16.0	(NA)	(NA)
	NORTHEAST REGION . . . . .	32	11	3.3	20.8	2.9	5.7	17.7	44.6	63.7	104.5	2.8	1.7	15.7
	NEW ENGLAND DIVISION . . . . .	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS. . . . .	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CDNNECTICUT. . . . .	4	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	21	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YDRK . . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA . . . . .	7	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	51	17	7.6	68.7	6.2	11.7	49.6	148.3	165.3	305.7	8.0	4.9	65.5
	EAST NRTH CENTRAL DIVISION. . . . .	38	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DHIO . . . . .	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINDIS . . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCDNSIN. . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA . . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION . . . . .	32	9	5.2	38.3	4.6	9.3	30.6	93.3	121.8	200.1	4.3	4.3	45.5
	SOUTH ATLANTIC DIVISION. . . . .	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	GEORGIA. . . . .	2	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KENTUCKY . . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . . .	13	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARKANSAS . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION. . . . .	107	15	1.6	11.8	1.3	2.4	8.2	28.9	22.1	49.1	.9	1.1	9.5
	PACIFIC DIVISION . . . . .	97	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	90	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
376	GUIDED MISSILES, SPACE VEHICLES. .	147	124	160.0	2 317.1	63.5	125.7	746.8	3 969.2	1 673.4	5 628.2	92.3	(NA)	(NA)
	NORTHEAST REGION . . . . .	15	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT. . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK . . . . .	5	3	4	3.3	.2	.4	1.8	4.0	1.5	5.3	.1	(NA)	(NA)
	PENNSYLVANIA . . . . .	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	13	10	11.2	147.9	3.6	7.4	36.7	292.8	144.2	424.4	5.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . . .	12	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DHIO . . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MICHIGAN . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION . . . . .	46	41	26.0	347.3	9.1	18.4	91.8	567.8	137.0	686.8	13.9	(NA)	(NA)
	SOUTH ATLANTIC DIVISION. . . . .	28	24	16.3	222.4	5.5	11.2	54.5	358.2	87.9	427.1	11.6	(NA)	(NA)
	MARYLAND . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA . . . . .	17	15	14.5	200.6	4.5	9.1	45.3	319.7	73.7	175.6	9.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA. . . . .	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . . .	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS. . . . .	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION. . . . .	73	62	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MDUNTAIN DIVISION. . . . .	10	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLDRADD . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZDNA. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH . . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	63	54	99.1	1 497.4	37.9	72.3	455.2	2 534.3	1 038.0	3 585.9	53.2	(NA)	(NA)
	WASHINGTON . . . . .	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	58	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
379	MISC. TRANSPORTATION EQUIPMENT . .	1 553	592	59.1	448.4	49.2	92.0	324.8	823.7	1 468.4	2 268.9	55.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	118	47	4.9	37.8	4.1	7.5	27.9	62.1	123.8	193.4	6.4	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	25	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	93	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK . . . . .	20	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY . . . . .	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA . . . . .	66	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total  (number)	With 20 employ- ees or more (number)	Number  (1,000)	Payroll  (million dollars)	Number  (1,000)	Man-hours  (millions)	Wages  (million dollars)						
379	MISC. TRANSPORTATION EQUIPMENT-- CONTINUED													
	NORTH CENTRAL REGION . . . . .	554	226	25.8	208.5	21.2	39.9	148.4	377.5	701.9	1 058.5	26.6	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . .	378	167	19.1	162.5	15.6	29.5	117.0	292.6	499.1	778.9	16.4	(NA)	(NA)
	OHIO . . . . .	60	27	2.6	18.7	2.2	4.2	14.4	35.3	75.7	108.1	2.9	(NA)	(NA)
	INDIANA . . . . .	160	80	10.1	84.8	8.4	16.3	63.7	138.8	275.1	406.6	10.4	(NA)	(NA)
	ILLINOIS . . . . .	26	4	.4	3.1	.4	.7	2.3	3.7	7.9	11.2	.1	(NA)	(NA)
	MICHIGAN . . . . .	99	40	5.1	48.9	3.8	6.8	31.5	98.9	116.1	213.9	2.8	(NA)	(NA)
	WISCONSIN . . . . .	33	16	1.0	7.0	.8	1.6	5.2	15.9	24.3	39.2	.3	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	176	59	6.7	46.0	5.5	10.4	31.4	84.9	202.8	279.5	10.2	(NA)	(NA)
	MINNESOTA . . . . .	37	11	2.9	23.2	2.5	4.6	15.8	43.7	122.9	161.2	7.5	(NA)	(NA)
	IOWA . . . . .	20	8	.6	3.8	.5	1.0	2.6	5.6	10.2	15.8	(0)	(NA)	(NA)
	MISSOURI . . . . .	37	10	.7	4.2	.6	1.1	2.9	7.3	13.9	21.2	.6	(NA)	(NA)
	NEBRASKA . . . . .	13	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	KANSAS . . . . .	59	27	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION . . . . .	462	157	12.1	77.2	10.2	19.4	56.4	150.0	278.5	424.0	13.7	(NA)	(NA)
	SOUTH ATLANTIC DIVISION. . . . .	179	57	3.8	25.5	3.2	6.2	18.0	53.1	99.4	151.0	2.8	(NA)	(NA)
	MARYLAND . . . . .	6	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VIRGINIA . . . . .	16	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NORTH CAROLINA . . . . .	22	6	.4	2.8	.4	.7	1.8	4.9	8.6	13.2	.1	(NA)	(NA)
	SOUTH CAROLINA . . . . .	21	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	GEORGIA . . . . .	45	16	.9	5.7	.7	1.5	4.1	13.0	33.2	45.7	.5	(NA)	(NA)
	FLORIDA . . . . .	63	20	1.3	8.3	1.0	2.0	5.8	17.2	28.1	44.8	1.7	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	75	28	2.5	15.2	2.1	3.8	11.1	26.1	49.0	75.8	1.9	(NA)	(NA)
	KENTUCKY . . . . .	7	3	.2	.5	.1	.2	.4	.8	2.0	2.7	(2)	(NA)	(NA)
	TENNESSEE . . . . .	26	9	.9	5.7	.8	1.3	4.2	10.0	20.7	31.5	.8	(NA)	(NA)
	ALABAMA . . . . .	30	9	.9	6.0	.8	1.5	4.3	10.8	17.5	28.4	.8	(NA)	(NA)
	MISSISSIPPI . . . . .	12	7	.5	3.0	.4	.8	2.2	4.6	8.9	13.3	.3	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	208	72	5.8	36.5	5.0	9.4	27.4	70.8	130.1	197.2	9.0	(NA)	(NA)
	ARKANSAS . . . . .	23	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	LOUISIANA . . . . .	11	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OKLAHOMA . . . . .	41	17	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS . . . . .	133	43	3.6	23.8	3.1	5.8	17.6	46.2	86.2	129.7	7.6	(NA)	(NA)
	WEST REGION. . . . .	419	162	16.4	125.0	13.7	25.2	92.0	234.2	364.2	593.1	8.5	(NA)	(NA)
	MOUNTAIN DIVISION. . . . .	118	32	3.4	21.3	2.9	4.8	15.1	36.6	57.1	92.2	1.9	(NA)	(NA)
	IDAHO . . . . .	14	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO . . . . .	34	11	1.1	7.1	.9	1.7	4.5	11.6	17.1	28.2	.6	(NA)	(NA)
	NEW MEXICO . . . . .	14	2	.2	.9	.2	.2	.7	1.5	4.3	5.8	(2)	(NA)	(NA)
	ARIZONA . . . . .	27	6	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	UTAH . . . . .	18	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	301	130	13.0	103.7	10.8	20.5	76.9	197.6	307.1	500.9	6.6	(NA)	(NA)
	WASHINGTON . . . . .	26	4	.5	3.2	.4	.5	2.2	6.1	10.6	16.5	.3	(NA)	(NA)
	OREGON . . . . .	40	18	1.5	11.8	1.3	2.4	8.5	25.3	39.1	64.7	.7	(NA)	(NA)
	CALIFORNIA . . . . .	235	108	11.0	88.7	9.1	17.6	66.2	166.2	257.5	419.7	5.6	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

<sup>2</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Transportation equipment (SIC 37)	Motor vehicles and equipment (SIC 371)	Aircraft and parts (SIC 372)	Ship and boat building and repairing (SIC 373)	Railroad equipment (SIC 374)	Motorcycles, bicycles and parts (SIC 375)	Guided missiles, space vehicles, parts (SIC 376)	Miscellaneous transportation equipment (SIC 379)
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	8 802	3 391	1 094	2 232	163	222	147	1 553
WITH 1 TO 19 EMPLOYEES . . . . .00 .	5 184	1 844	539	1 587	60	170	23	961
WITH 20 TO 99 EMPLOYEES . . . . .00 .	2 140	840	303	424	52	31	30	460
WITH 100 EMPLOYEES OR MORE . . . . .00 .	1 478	707	252	221	51	21	94	132
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	1 719.0	807.5	438.7	185.2	50.8	17.6	160.0	59.1
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . .MILLION DOLLARS .	19 880.0	9 460.5	5 281.7	1 703.6	529.1	139.6	2 317.1	448.4
PRODUCTION WORKERS:								
AVERAGE FOR YEAR . . . . .1,000 .	1 246.2	669.2	259.5	151.3	38.4	15.0	63.5	49.2
MARCH . . . . .00 .	1 228.9	660.4	256.9	148.9	39.3	14.3	62.5	46.6
MAY . . . . .00 .	1 244.7	667.4	255.9	153.7	37.4	14.8	62.8	52.5
AUGUST . . . . .00 .	1 214.7	639.0	258.7	150.6	37.3	15.3	64.5	49.3
NOVEMBER . . . . .00 .	1 296.3	710.2	266.3	151.9	39.7	15.6	64.4	48.2
MAN-HOURS . . . . .MILLIONS .	2 527.4	1 386.9	523.5	297.4	72.7	29.1	125.7	92.0
JANUARY-MARCH . . . . .00 .	620.0	338.3	130.4	73.2	19.5	6.9	30.5	21.2
APRIL-JUNE . . . . .00 .	643.8	363.5	131.6	76.2	17.8	7.4	31.9	25.4
JULY-SEPTEMBER . . . . .00 .	603.9	325.1	125.9	73.8	17.2	7.3	31.4	23.3
OCTOBER-DECEMBER . . . . .00 .	659.7	370.0	135.6	74.3	18.3	7.5	31.8	22.2
WAGES . . . . .MILLION DOLLARS .	12 848.6	7 419.9	2 613.6	1 265.5	371.9	106.2	746.8	324.8
COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . .00 .	55 767.8	42 125.2	6 834.8	1 951.7	1 341.2	373.0	1 673.4	1 468.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .00 .	53 471.6	41 266.7	6 006.5	1 830.9	1 263.5	339.2	1 369.2	1 395.6
COST OF REALES . . . . .00 .	1 090.6	432.2	405.0	25.9	24.8	21.1	126.6	55.0
FUELS CONSUMED . . . . .00 .	205.5	141.1	31.2	12.2	8.3	1.7	6.3	4.7
PURCHASED ELECTRIC ENERGY . . . . .00 .	365.6	210.5	83.5	24.6	9.6	2.6	28.6	6.3
CONTRACT WORK . . . . .00 .	634.4	74.7	308.6	58.2	35.1	8.4	142.7	6.8
VALUE OF SHIPMENTS, INCLUDING REALES <sup>1</sup> . . . . .00 .	94 704.9	63 921.4	15 451.4	4 329.2	2 446.2	659.5	5 628.2	2 268.9
VALUE OF REALES . . . . .00 .	1 398.4	545.6	571.6	31.4	35.6	27.2	126.4	60.5
VALUE ADDED BY MANUFACTURE . . . . .00 .	39 799.4	22 056.2	9 123.6	2 398.2	1 113.3	315.2	3 969.2	823.7
MANUFACTURERS' INVENTORIES:								
BEGINNING OF YEAR, TOTAL . . . . .00 .	14 523.0	4 137.3	8 097.5	731.9	468.3	101.1	708.4	278.4
FINISHED PRODUCTS . . . . .00 .	1 468.1	728.0	482.0	72.9	54.5	33.3	11.0	86.6
WORK IN PROCESS . . . . .00 .	9 861.0	1 702.6	6 565.2	506.0	316.7	39.4	651.7	79.5
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 .	3 193.8	1 706.8	1 050.4	153.1	97.1	28.4	45.6	112.4
END OF YEAR, TOTAL . . . . .00 .	15 705.4	4 726.0	8 420.7	931.0	459.3	128.8	728.4	311.0
FINISHED PRODUCTS . . . . .00 .	1 582.1	783.1	482.8	82.6	77.1	44.3	3.1	109.1
WORK IN PROCESS . . . . .00 .	10 665.9	1 864.1	7 032.9	670.5	299.5	54.2	671.3	73.4
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 .	3 457.4	2 078.8	905.0	177.9	82.8	30.3	54.0	128.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .00 .	2 747.0	2 132.1	197.7	187.7	58.0	16.3	98.4	56.8
NEW PLANT AND EQUIPMENT, TOTAL . . . . .00 .	2 660.2	2 093.2	169.0	179.1	55.3	16.0	92.3	55.2
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .00 .	342.9	171.9	29.2	76.8	17.4	4.3	20.9	22.4
NEW MACHINERY AND EQUIPMENT . . . . .00 .	2 317.3	1 921.3	139.8	102.3	38.0	11.6	71.4	32.9
USED PLANT AND EQUIPMENT . . . . .00 .	86.9	38.9	28.7	8.6	2.7	.3	6.1	1.5

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

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# Motor Vehicles and Equipment

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# EXPLANATORY TEXT

## MOTOR VEHICLES AND EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

**3711—Motor Vehicles and Passenger Car Bodies\***

**3713—Truck and Bus Bodies**

**3714—Motor Vehicle Parts and Accessories**

**3715—Truck Trailers**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3711.—MOTOR VEHICLES AND CAR BODIES (Short Title)

This industry comprises establishments primarily engaged in manufacturing or assembling complete passenger automobiles, trucks, commercial cars and buses (except trackless trolleys, industry 3743), and special-purpose motor vehicles. This industry also includes establishments primarily engaged in manufacturing chassis or passenger car bodies. Such establishments may also manufacture motor vehicle parts, but establishments primarily engaged in manufacturing motor vehicle

parts except chassis and passenger car bodies are classified in industry 3714.

Establishments primarily engaged in manufacturing truck and bus bodies and assembling them on purchased chassis are classified in industry 3713; motorcycles in industry 3751; wheel tractors, except contractors' off-highway types, in industry 3523; tracklaying and contractors' off-highway tractors in industry 3531; combat tanks in industry 3795; and stamped body parts for passenger cars in industry 3465. For a detailed list of products of industry 3711, refer to table 6A, product codes 37111 11 to 37115 11.

The industry definition included in the 1972 edition of the SIC Manual combines two separate industries included in the 1967 SIC Manual: Industry 3711, Motor Vehicles, and industry 3712, Passenger Car Bodies.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

Value of shipments and other receipts of the Motor Vehicles and Car Bodies Industry in 1972 totaled \$42,906 million. This included shipments of motor vehicles and car bodies (primary products) valued at \$40,957 million, shipments of other products (secondary products) valued at \$1,652 million, and miscellaneous receipts (mainly resales) of \$296 million.

Shipments of motor vehicles and car bodies (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 96 percent. Secondary products shipped by this industry in 1972 consisted mainly of motor vehicle parts and accessories (\$1,206 million).

Shipments of motor vehicles and car bodies (primary products) from establishments classified in industry 3711 in 1972 represented 100 percent (coverage ratio) of these products valued at \$41,046 million shipped by all industries. In 1967, the coverage ratio was 99 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed

\*Note that the "short title" for this industry is used throughout the report.



from industry averages. For industry 3711, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3713.—TRUCK AND BUS BODIES**

This industry comprises establishments primarily engaged in manufacturing truck and bus bodies, for sale separately or for assembly on purchased chassis.

Establishments primarily engaged in manufacturing complete trucks and buses are classified in industry 3711; stamped body parts for trucks and buses in industry 3465; and truck trailers and demountable cargo containers in industry 3715. For a detailed list of products of industry 3713, refer to table 6A, product codes 37131 12 to 37132 98.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Truck and Bus Bodies Industry in 1972 totaled \$1,569 million. This included shipments of truck and bus bodies (primary products) valued at \$1,320 million, shipments of other products (secondary products) valued at \$152 million, and miscellaneous receipts (mainly resales) of \$96 million.

Shipments of truck and bus bodies (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of truck and bus bodies (primary products) from establishments classified in industry 3713 in 1972 represented 91 percent (coverage ratio) of these products valued at \$1,444 million shipped by all industries. In 1967, the coverage ratio was 92 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3713, these establishments accounted for 5 percent of value of shipments.

#### **INDUSTRY 3714.—MOTOR VEHICLE PARTS AND ACCESSORIES**

This industry comprises establishments primarily engaged in manufacturing motor vehicle parts and accessories, but not

engaged in manufacturing complete motor vehicles or passenger car bodies.

Establishments primarily engaged in manufacturing or assembling complete automobiles and trucks are classified in industry 3711; tires and tubes in industry 3011; automobile glass in SIC Major Group 32; automobile stampings in industry 3465; vehicular lighting equipment in industry 3647; ignition systems in industry 3694; storage batteries in industry 3691; and carburetors, pistons, rings, and valves in industry 3592. For a detailed list of products of industry 3714, refer to table 6A, product codes 37141 11 to 37143 98.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Motor Vehicle Parts and Accessories Industry in 1972 totaled \$18,277 million. This included shipments of motor vehicle parts and accessories (primary products) valued at \$16,769 million, shipments of other products (secondary products) valued at \$1,151 million, and miscellaneous receipts (mainly resales) of \$358 million.

Shipments of motor vehicle parts and accessories (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent.

Shipments of motor vehicle parts and accessories (primary products) from establishments classified in industry 3714 in 1972 represented 86 percent (coverage ratio) of these products valued at \$19,417 million shipped by all industries. In 1967, the coverage ratio was 88 percent. Other industries shipping motor vehicle parts and accessories consisted mainly of industry 3711, Motor Vehicles and Car Bodies (\$1,206 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3714, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3715.—TRUCK TRAILERS**

This industry comprises establishments primarily engaged in manufacturing truck trailers, truck trailer chassis for sale

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## EXPLANATORY TEXT—Continued

separately, detachable trailer bodies (cargo containers) for sale separately, and detachable trailer (cargo container) chassis, for sale separately. For a detailed list of products of industry 3715, refer to table 6A, product codes 37151 03 to 37152 55.

Value of shipments and other receipts of the Truck Trailers Industry in 1972 totaled \$1,118 million. This included shipments of truck trailers (primary products) valued at \$1,009 million, shipments of other products (secondary products) valued at \$43 million, and miscellaneous receipts (mainly resales) of \$65 million.

Shipments of truck trailers (primary products) in 1972 represented 96 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of truck trailers (primary products) from establishment classified in industry 3715 in 1972 represented 94 percent (coverage ratio) of these products valued at \$1,079 million shipped by all industries. In 1967, the coverage ratio was 91 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3715, these establishments accounted for 3 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3711.--MOTOR VEHICLES AND CAR BODIES <sup>2</sup>														
1972 Census .....	231	119	339.2	4,299.5	284.0	587.9	3,405.4	11,782.7	31,169.4	42,905.6	<sup>3</sup> 919.0	(NA)	2,183.3	96	100
1971 ASM .....	(NA)	(NA)	340.8	3,893.8	283.0	573.0	3,072.0	11,679.7	28,526.1	40,306.5	315.5	4,995.4	1,976.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	305.2	3,032.9	245.3	476.7	2,296.5	7,348.3	20,531.0	27,750.7	305.7	4,752.5	2,075.0	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	351.0	3,360.0	293.4	588.1	2,628.3	9,343.2	24,793.2	34,335.5	391.1	4,592.0	1,962.0	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	332.8	3,321.7	272.4	612.8	2,629.7	9,552.3	24,129.7	33,664.8	298.8	4,243.7	2,030.0	(NA)	(NA)
1967 Census .....	181	130	321.2	2,699.9	262.3	524.4	2,098.4	7,353.6	19,964.7	27,296.0	263.2	3,889.3	1,802.3	96	99
	INDUSTRY 3713.--TRUCK AND BUS BODIES <sup>2</sup>														
1972 Census .....	789	356	42.8	354.8	33.3	65.5	245.5	659.2	943.7	1,569.0	48.5	(NA)	302.7	90	91
1971 ASM .....	(NA)	(NA)	34.1	259.9	26.5	52.3	177.0	474.8	575.5	1,031.7	21.2	197.1	206.0	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	35.8	255.6	27.7	54.1	176.0	439.1	498.0	938.9	19.0	189.1	182.0	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	33.8	233.2	26.9	51.5	168.0	399.7	457.0	837.9	19.7	188.5	172.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	32.0	214.1	25.9	49.6	56.1	378.4	431.7	798.4	*22.0	155.5	149.7	(NA)	(NA)
1967 Census .....	641	258	30.4	192.2	24.6	49.4	138.5	331.7	376.4	706.1	13.0	148.0	126.9	85	92
1966 ASM .....	(NA)	(NA)	31.6	191.1	25.8	53.7	139.8	322.3	409.7	718.6	38.5	(NA)	128.4	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	28.0	164.8	22.5	47.3	120.7	273.2	300.9	569.8	10.1	(NA)	97.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	26.0	143.8	20.8	42.3	103.7	243.1	273.9	507.6	10.6	111.6	90.5	(NA)	(NA)
1963 Census .....	610	208	24.5	133.3	19.7	40.9	98.4	229.5	250.2	476.7	6.6	99.9	74.3	88	86
1962 ASM .....	(NA)	(NA)	25.1	131.7	19.7	41.2	94.4	200.3	317.9	504.0	*6.9	94.8	92.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	23.2	115.6	18.3	36.6	80.9	160.3	216.9	374.1	33.8	(NA)	69.0	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	24.2	120.1	21.2	37.7	87.5	172.7	223.7	394.8	(S)	(NA)	68.5	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	22.8	108.9	18.0	35.7	78.0	157.6	207.5	362.8	(S)	(NA)	67.3	(NA)	(NA)
1958 Census .....	562	187	20.0	91.4	15.9	30.7	65.4	145.6	163.7	307.8	3.6	(NA)	61.2	87	87
	INDUSTRY 3714.--MOTOR VEHICLE PARTS AND ACCESSORIES														
1972 Census .....	2,116	933	399.9	4,587.2	331.6	694.4	3,608.7	9,144.7	9,298.7	18,277.3	<sup>3</sup> 1,113.2	(NA)	2,045.1	94	86
1971 ASM .....	(NA)	(NA)	379.8	3,956.5	313.7	631.9	3,080.5	8,115.5	8,019.3	16,117.7	429.3	6,992.8	1,893.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	356.8	3,357.4	289.7	587.5	2,560.6	6,432.0	6,664.4	13,073.2	562.1	6,770.3	1,822.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	405.1	3,711.1	337.2	699.7	2,926.8	7,580.1	7,412.3	14,807.8	613.3	6,323.3	1,793.2	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	388.9	3,479.1	323.2	693.8	2,752.5	7,023.5	7,185.5	14,198.3	480.0	5,830.1	1,559.4	(NA)	(NA)
1967 Census .....	1,674	785	364.9	2,890.7	300.3	609.0	2,244.4	5,712.0	5,943.1	14,623.8	572.0	5,518.6	1,468.5	90	88
	INDUSTRY 3715.--TRUCK TRAILERS														
1972 Census .....	255	139	24.7	205.6	19.7	37.8	149.1	449.4	684.7	1,117.9	14.6	(NA)	190.9	96	94
1971 ASM .....	(NA)	(NA)	21.2	161.7	16.4	31.7	115.3	287.8	500.6	787.2	20.1	192.8	143.8	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	22.7	162.4	17.4	33.7	114.3	283.0	491.9	776.9	19.7	194.3	133.9	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	27.4	189.0	21.9	42.7	140.0	353.7	621.5	961.9	21.1	172.6	161.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	25.1	167.1	20.2	39.4	124.2	284.3	531.8	803.8	15.6	150.6	155.4	(NA)	(NA)
1967 Census .....	179	108	22.9	147.1	18.3	35.5	105.1	268.8	445.8	713.9	22.3	143.4	129.7	94	91
1966 ASM .....	(NA)	(NA)	28.1	175.2	22.9	44.9	129.3	314.4	487.9	795.6	25.5	(NA)	139.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	24.1	150.1	19.5	39.6	111.3	268.4	425.6	690.4	7.6	(NA)	124.6	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	21.8	129.4	17.3	34.4	94.7	231.4	360.1	588.4	13.8	107.6	99.2	(NA)	(NA)
1963 Census .....	197	105	19.4	112.9	15.5	30.9	81.7	205.5	309.5	515.7	5.3	95.8	82.1	92	93
1962 ASM .....	(NA)	(NA)	20.2	117.3	15.8	31.8	83.0	218.5	325.6	543.8	6.1	91.3	89.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	17.2	94.3	13.3	26.3	65.8	158.1	247.2	405.7	10.2	(NA)	87.4	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	18.9	101.6	14.7	29.6	72.7	170.1	267.8	438.5	7.9	(NA)	78.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	20.6	107.1	16.7	35.4	78.0	203.2	305.0	505.4	*10.3	(NA)	96.2	(NA)	(NA)
1958 Census .....	170	93	15.7	78.1	12.1	24.6	55.4	131.1	206.3	334.7	5.1	(NA)	80.2	84	93

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3711	Industry 3713	Industry 3714	Industry 3715
1972.....	167	732	1,746	215
1967.....	107	620	1,424	147
1963.....	(NA)	594	(NA)	175

The 1963 company count for industry 3711 and 3714 was 1,655.

(NA) Not available. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to industries 3713 and 3715. Industries 3711 and 3714 were shown as separate industries for the first time in 1967. For prior years, they made up industry 3717, Motor Vehicles and Parts.

Footnotes continued on next page.



TABLE 1A. General Statistics: 1958 to 1972—Continued

<sup>2</sup>Establishments classified as manufacturers of self-contained motor homes in the 1972 Census of Manufactures are included in industries 3711, if made from chassis own manufacture and in industry 3713, if made from purchased chassis. In order to give the data user an estimate of the total value of shipments of self-contained motor homes for 1972, the following represents the general statistics for those establishments primarily producing such motor homes:

Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories
Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages						
(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
59	54	11.7	94.4	9.1	18.2	65.9	221.1	411.4	608.6	29.9	(NA)	111.2

<sup>3</sup>The 1972 Census of Manufactures capital expenditures data include the value of special automotive tools subject to rapid write off which are not included for 1971 and prior years. In 1972, the value of such tools was approximately .5 billion in industry 3711 and .7 billion in industry 3714. In the 1972 Census of Manufactures, respondents were requested to include in the capital expenditures account all costs actually incurred during 1972 chargeable to the fixed assets accounts and of the type for which depreciation accounts are ordinarily maintained. In years prior to 1972, the reporting instructions did not specifically request that expenditures for those special tools be included as capital expenditures. As a result, there has been some inconsistency in treatment of these expenditures. Some have been reported as capital expenditures in the past, others have not. The data shown for 1972 include expenditures for special automotive tools, such as dies, die sets, jigs, and fixtures, etc., normally included in rapid write off accounts. Generally, these special tools are produced in industry 3544, Special Dies, Tools, Jigs, and Fixtures, and used in the automotive industries (3711 and 3714).

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3711.--MOTOR VEHICLES AND CAR BODIES											
1972 Census <sup>1</sup> .....	12,675	(NA)	84	2,070	5.79	.73	.83	(NA)	34,737	36	20.04
1971 ASM.....	11,414	14,700	83	2,025	5.36	.71	.81	.12	34,160	33	20.33
1970 ASM.....	9,937	15,600	80	1,943	4.82	.74	.85	.17	24,077	41	15.42
1969 ASM.....	9,573	(NA)	84	2,004	4.67	.72	.82	(NA)	26,619	36	15.89
1968 ASM.....	9,981	(NA)	82	2,250	4.29	.72	.82	(NA)	28,703	35	15.59
1967 Census.....	8,406	(NA)	82	1,999	4.00	.73	.83	(NA)	22,894	37	14.02
INDUSTRY 3713.--TRUCK AND BUS BODIES											
1972 Census.....	8,229	(NA)	78	1,976	3.72	.61	.83	(NA)	15,336	54	9.95
1971 ASM.....	7,622	5,780	78	1,974	3.38	.56	.81	.19	13,924	55	9.08
1970 ASM.....	7,140	5,280	77	1,953	3.25	.53	.80	.20	12,265	58	8.12
1969 ASM.....	6,899	5,580	80	1,914	3.26	.55	.82	.22	11,825	58	7.76
1968 ASM.....	6,691	4,860	81	1,915	3.15	.54	.81	.16	11,825	57	7.63
1967 Census.....	6,322	4,870	81	2,008	2.80	.53	.81	.21	10,911	58	6.71
1966 ASM.....	6,042	(NA)	81	2,084	2.60	.57	.84	(NA)	10,191	59	6.00
1965 ASM.....	5,879	(NA)	80	2,098	2.55	.53	.82	(NA)	9,747	60	5.78
1964 ASM.....	5,532	4,290	80	2,031	2.45	.54	.82	.22	9,353	59	5.74
1963 Census.....	5,448	4,080	81	2,073	2.41	.52	.80	.21	9,379	58	5.61
1962 ASM.....	5,255	3,780	79	2,090	2.29	.63	.89	.19	7,991	66	4.86
1961 ASM.....	4,973	(NA)	79	2,003	2.21	.58	.89	(NA)	6,900	72	4.38
1960 ASM.....	4,955	(NA)	87	1,780	2.32	.57	.87	(NA)	7,123	70	4.58
1959 ASM.....	4,773	(NA)	79	1,982	2.19	.57	.87	(NA)	6,907	69	4.42
1958 Census.....	4,567	(NA)	80	1,929	2.13	.53	.83	(NA)	7,277	63	4.74
INDUSTRY 3714.--MOTOR VEHICLE PARTS AND ACCESSORIES											
1972 Census.....	11,470	(NA)	83	2,094	5.20	.51	.76	(NA)	19,935	50	13.17
1971 ASM.....	10,417	(NA)	83	2,014	4.88	.50	.74	.23	21,361	49	12.84
1970 ASM.....	9,415	(NA)	81	2,028	4.36	.51	.77	.19	18,026	52	10.95
1969 ASM.....	9,161	(NA)	83	2,075	4.18	.50	.72	.23	18,711	49	10.83
1968 ASM.....	8,946	(NA)	83	2,147	3.97	.51	.75	.24	18,059	50	10.12
1967 Census.....	7,921	(NA)	82	2,028	3.69	.51	.76	(NA)	15,654	51	9.38
INDUSTRY 3715.--TRUCK TRAILERS											
1972 Census.....	8,323	(NA)	80	1,918	3.94	.65	.83	(NA)	16,866	49	11.02
1971 ASM.....	7,627	9,100	77	1,933	3.64	.64	.84	.24	13,575	56	9.08
1970 ASM.....	7,154	8,600	77	1,937	3.39	.63	.84	.25	12,467	57	8.40
1969 ASM.....	6,898	6,300	80	1,950	3.28	.65	.84	.18	12,909	53	8.28
1968 ASM.....	6,657	6,000	80	1,950	3.15	.66	.87	.19	11,327	59	7.22
1967 Census.....	6,423	6,300	80	1,940	2.93	.62	.83	.20	11,738	55	7.57
1966 ASM.....	6,240	(NA)	81	1,965	2.88	.62	.84	(NA)	11,196	56	7.00
1965 ASM.....	6,238	(NA)	81	2,036	2.81	.62	.83	(NA)	11,159	56	6.77
1964 ASM.....	5,937	4,900	80	1,982	2.75	.61	.83	.18	10,620	56	6.73
1963 Census.....	5,810	4,900	80	1,999	2.64	.60	.82	.18	10,576	55	6.65
1962 ASM.....	5,807	4,500	78	2,008	2.60	.60	.81	.17	10,814	54	6.87
1961 ASM.....	5,479	(NA)	77	1,982	2.50	.61	.84	(NA)	9,187	60	6.02
1960 ASM.....	5,387	(NA)	78	2,008	2.46	.61	.84	(NA)	9,022	60	5.75
1959 ASM.....	5,195	(NA)	81	2,120	2.20	.60	.82	(NA)	9,853	53	5.74
1958 Census.....	4,987	(NA)	77	2,032	2.25	.62	.85	(NA)	8,369	60	5.34

(NA) Not available.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3711-- MOTOR VEHICLES AND CAR BODIES													
UNITED STATES, . . . . .	231	119	339.2	4 299.5	284.0	587.9	3 405.4	11 782.7	31 169.4	42 905.6	919.0	321.2	7 353.6
NORTHEAST REGION, . . . . .	37	20	37.3	318.8	22.8	43.3	250.3	1 149.0	2 646.5	3 787.5	38.3	25.5	689.6
NEW ENGLAND DIVISION, . . . . .	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MASSACHUSETTS, . . . . .	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION, . . . . .	29	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK, . . . . .	16	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY, . . . . .	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA, . . . . .	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION, . . . . .	109	62	248.6	3 180.6	207.9	432.9	2 518.4	7 915.4	20 861.5	28 797.1	800.5	237.0	5 160.4
EAST NORTH CENTRAL DIVISION, . . . . .	86	51	215.0	2 763.6	179.0	373.4	2 178.3	6 450.8	17 165.2	23 661.3	760.6	206.3	4 360.6
OHIO, . . . . .	18	11	33.0	406.8	27.5	56.3	325.3	940.6	2 720.7	3 649.7	74.1	30.1	574.0
INDIANA, . . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
ILLINOIS, . . . . .	9	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MICHIGAN, . . . . .	36	25	145.8	1 929.8	121.4	256.7	1 518.3	4 475.4	11 321.1	15 859.2	221.7	140.8	3 032.7
WISCONSIN, . . . . .	13	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION, . . . . .	23	11	33.6	417.0	28.9	59.5	340.1	1 464.6	3 696.3	5 135.8	39.9	30.7	799.9
MINNESOTA, . . . . .	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MISSOURI, . . . . .	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH DAKOTA, . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS, . . . . .	5	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION, . . . . .	40	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	34.1	963.7
SOUTH ATLANTIC DIVISION, . . . . .	21	9	29.3	367.4	25.3	52.5	300.1	1 316.0	3 616.5	4 901.5	29.3	FF	(D)
DELAWARE, . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MARYLAND, . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
VIRGINIA, . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CAROLINA, . . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA, . . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
EAST SOUTH CENTRAL DIVISION, . . . . .	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY, . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TENNESSEE, . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION, . . . . .	14	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS, . . . . .	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST REGION, . . . . .	45	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	24.8	539.9
PACIFIC DIVISION, . . . . .	40	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON, . . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
OREGON, . . . . .	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA, . . . . .	36	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	22.9	515.4
3713-- TRUCK AND BUS BODIES													
UNITED STATES, . . . . .	789	356	42.8	354.8	33.3	65.5	245.5	659.2	943.7	1 569.0	48.5	30.4	331.7
NORTHEAST REGION, . . . . .	151	68	5.7	46.5	4.6	9.0	33.6	81.0	97.5	173.7	20.0	4.1	38.6
NEW ENGLAND DIVISION, . . . . .	E1 37	16	1.0	8.4	.8	1.5	5.6	14.9	18.6	33.4	.3	.6	6.2
MASSACHUSETTS, . . . . .	18	9	.6	5.6	.5	1.0	3.7	9.7	11.3	21.0	.2	.4	3.6
RHODE ISLAND, . . . . .	E2 5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION, . . . . .	114	52	4.7	38.1	3.8	7.4	28.0	66.1	78.9	140.3	1.7	3.5	32.4
NEW YORK, . . . . .	47	22	1.7	13.3	1.3	2.4	9.3	28.2	30.6	56.1	.5	1.0	9.3
NEW JERSEY, . . . . .	E1 24	10	.7	6.8	.6	1.3	5.1	8.8	14.5	22.3	.2	.5	4.9
PENNSYLVANIA, . . . . .	43	20	2.3	18.0	1.9	3.7	13.6	29.1	33.8	61.8	1.0	2.0	19.2
NORTH CENTRAL REGION, . . . . .	257	131	21.2	188.2	16.0	27.7	129.0	358.2	522.6	866.4	36.0	15.6	184.8
EAST NORTH CENTRAL DIVISION, . . . . .	169	92	15.0	137.1	11.4	22.0	95.2	234.6	317.3	549.9	10.6	12.9	159.0
OHIO, . . . . .	44	26	4.3	38.5	3.3	6.1	26.7	64.6	76.9	139.7	1.9	5.8	67.7
INDIANA, . . . . .	44	21	3.9	34.0	3.1	6.0	24.6	63.7	107.3	168.8	3.2	2.6	34.0
ILLINOIS, . . . . .	28	18	2.0	17.1	1.5	3.0	12.1	31.1	32.0	62.3	1.6	1.6	16.6
MICHIGAN, . . . . .	34	17	2.1	20.5	1.6	3.1	14.4	36.0	44.6	83.3	2.1	1.0	15.8
WISCONSIN, . . . . .	19	10	2.7	26.8	1.9	3.9	17.4	39.1	56.4	95.9	1.8	1.9	24.9
WEST NORTH CENTRAL DIVISION, . . . . .	88	39	6.2	51.5	4.6	9.7	33.8	123.7	205.4	316.5	25.4	2.7	25.8
MINNESOTA, . . . . .	E1 19	8	.4	3.7	.3	.6	2.4	6.3	8.9	15.2	.4	.4	4.2
IOWA, . . . . .	22	14	4.0	32.5	2.9	6.5	21.4	93.5	169.4	251.1	(D)	CC	(D)
MISSOURI, . . . . .	E1 31	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	14.4
SOUTH REGION, . . . . .	219	81	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.5	70.2
SOUTH ATLANTIC DIVISION, . . . . .	99	39	4.1	29.6	3.3	6.1	19.3	43.7	67.0	109.8	2.5	3.6	32.3
MARYLAND, . . . . .	E2 11	4	.3	2.1	.2	.4	1.4	4.0	4.6	8.2	.1	.2	1.5
VIRGINIA, . . . . .	14	7	.7	4.8	.6	1.1	3.6	9.8	15.0	24.9	.3	CC	(D)
NORTH CAROLINA, . . . . .	17	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.3
GEORGIA, . . . . .	17	3	1.1	6.8	.8	1.4	3.1	3.1	17.0	19.6	.3	EE	(D)
FLORIDA, . . . . .	E2 30	12	.5	3.5	.4	.7	2.5	5.6	7.6	13.1	.4	AA	(D)
EAST SOUTH CENTRAL DIVISION, . . . . .	54	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	22.1
KENTUCKY, . . . . .	E1 12	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE, . . . . .	20	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.2
ALABAMA, . . . . .	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI, . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION, . . . . .	66	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	15.8
ARKANSAS, . . . . .	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
LOUISIANA, . . . . .	E1 4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA, . . . . .	17	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TEXAS, . . . . .	36	12	.9	6.1	.7	1.5	4.1	10.1	20.1	30.0	.4	.9	9.0

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3713-- TRUCK AND BUS BODIES--CONTINUED													
WEST REGION. . . . .	162	76	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.3	38.1
MOUNTAIN DIVISION. . . . . E2	24	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.0
UTAH . . . . .	4	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION . . . . .	138	67	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.1	36.1
WASHINGTON . . . . . E1	9	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.5
OREGON . . . . .	17	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	3.0
CALIFORNIA . . . . .	111	54	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.6	30.6
3714-- MOTOR VEHICLE PARTS, ACCESSORIES													
UNITED STATES. . . . .	2 117	933	399.9	4 587.2	331.6	694.4	3 608.7	9 144.7	9 298.7	18 277.3	1 113.2	364.9	5 712.0
NORTHEAST REGION . . . . .	312	118	41.2	457.0	34.0	69.9	359.9	853.4	988.5	1 826.8	116.4	45.9	746.0
NEW ENGLAND DIVISION . . . . .	66	26	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NEW HAMPSHIRE. . . . .	5	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
MASSACHUSETTS. . . . .	36	13	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
RHODE ISLAND. . . . .	5	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
CONNECTICUT. . . . .	17	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MIDWEST ATLANTIC DIVISION . . . . .	246	92	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NEW YORK . . . . .	119	39	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	29.5	509.3
NEW JERSEY . . . . . E1	65	25	3.1	25.8	2.1	4.3	13.9	42.6	54.9	92.3	6.0	3.0	44.0
PENNSYLVANIA . . . . .	62	28	7.3	73.4	6.0	12.0	57.8	158.3	142.8	298.6	6.0	FF	(0)
NORTH CENTRAL REGION . . . . .	871	498	309.6	3 765.6	257.4	545.1	2 980.3	7 322.9	7 498.8	14 709.7	933.6	287.9	4 568.8
EAST NORTH CENTRAL DIVISION. . . . .	722	437	297.5	3 674.2	247.5	524.9	2 914.6	7 086.8	7 291.7	14 271.1	916.2	279.9	4 503.9
OHIO . . . . .	172	106	79.8	1 009.5	66.3	142.8	802.0	1 875.1	1 863.2	3 696.3	279.0	67.1	1 052.4
INDIANA . . . . .	108	69	48.3	560.1	40.1	82.7	446.5	1 018.0	998.2	1 994.1	111.2	FF	(0)
ILLINOIS . . . . .	122	63	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	12.1	164.2
MICHIGAN . . . . .	283	181	148.9	1 911.1	124.2	264.0	1 515.0	3 801.8	4 084.0	7 850.7	499.0	149.8	2 508.0
WISCONSIN. . . . .	37	18	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WEST NORTH CENTRAL DIVISION. . . . .	149	61	12.1	91.4	9.9	20.2	65.7	236.1	207.1	438.6	17.4	9.9	103.5
MINNESOTA. . . . .	42	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
IOWA . . . . .	30	13	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	14.2
MISSOURI . . . . .	52	28	6.1	47.9	5.0	10.2	34.1	114.7	108.0	218.9	5.4	6.2	47.7
NEBRASKA . . . . .	7	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
KANSAS . . . . .	13	5	1.3	8.4	1.1	2.4	6.9	18.4	17.9	35.9	1.1	.3	3.0
SOUTH REGION . . . . .	454	174	35.3	257.9	29.2	58.8	192.7	704.0	573.9	1 252.8	45.4	22.8	296.4
SOUTH ATLANTIC DIVISION. . . . .	159	60	12.0	86.4	10.0	20.6	65.1	250.7	181.9	423.8	8.0	FF	(0)
DELAWARE . . . . .	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
MARYLAND . . . . . E1	13	5	.6	4.1	.5	.9	3.1	8.5	7.7	16.3	.3	FF	(0)
VIRGINIA . . . . .	15	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
WEST VIRGINIA. . . . .	6	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
NORTH CAROLINA . . . . .	25	12	3.9	26.1	3.1	6.2	18.1	89.3	62.1	147.1	3.6	2.0	26.5
SOUTH CAROLINA . . . . .	6	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
GEORGIA . . . . .	37	19	2.6	16.6	2.3	4.4	13.4	55.0	35.1	89.4	1.0	1.7	30.7
FLORIDA. . . . . E1	55	11	1.2	9.1	.9	2.0	6.3	18.7	14.3	33.2	.7	.4	5.2
EAST SOUTH CENTRAL DIVISION. . . . .	95	59	16.2	121.3	13.5	27.0	92.0	323.9	271.7	582.0	27.0	FF	(0)
KENTUCKY . . . . .	23	13	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.7	19.9
TENNESSEE. . . . .	42	29	10.2	71.0	8.4	16.8	54.9	199.2	144.0	333.4	16.7	FF	(0)
ALABAMA . . . . .	17	9	1.7	13.6	1.4	3.0	10.3	22.2	35.1	58.9	1.5	EE	(0)
MISSISSIPPI. . . . .	13	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
WEST SOUTH CENTRAL DIVISION. . . . . E1	200	55	7.1	50.2	5.7	11.2	35.6	129.4	120.3	247.0	10.5	3.6	41.8
ARKANSAS . . . . .	25	8	2.1	13.7	1.7	3.4	10.3	41.1	34.1	75.2	6.3	.3	2.4
LOUISIANA. . . . . E6	17	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
OKLAHOMA . . . . .	27	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.4	18.2
TEXAS. . . . . E2	131	34	3.1	21.5	2.5	4.8	15.0	48.9	54.3	100.6	3.0	1.8	20.2
WEST REGION. . . . . E1	479	143	13.6	107.4	10.9	20.6	76.4	264.1	237.5	487.7	17.8	8.1	97.9
MOUNTAIN DIVISION. . . . . E1	74	15	1.4	9.3	1.1	2.1	6.4	29.6	18.4	46.9	1.1	EE	(0)
COLORADO . . . . .	22	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ARIZONA. . . . . E4	19	2	.2	1.4	.1	.3	.9	2.9	2.9	5.8	.2	(NA)	(NA)
UTAH . . . . . E1	12	2	.2	1.6	.2	.4	1.3	12.9	4.4	17.0	.2	AA	(0)
PACIFIC DIVISION . . . . . E1	405	128	12.2	98.1	9.8	18.5	70.0	234.5	219.1	440.8	16.7	6.9	83.5
WASHINGTON . . . . . E1	19	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	3.4
OREGON . . . . .	34	7	1.4	13.7	1.2	2.3	10.8	32.2	25.5	56.8	1.7	88	(0)
CALIFORNIA . . . . . E2	350	118	10.5	81.7	8.4	15.8	57.2	197.5	189.6	375.2	14.9	6.4	76.6
3715-- TRUCK TRAILERS													
UNITED STATES. . . . .	255	139	24.7	205.6	19.7	37.8	149.1	449.4	684.7	1 117.9	14.6	22.9	268.3
NORTHEAST REGION . . . . .	37	21	5.5	45.6	4.2	7.8	33.4	125.9	165.2	284.1	2.1	5.2	80.1
MIDWEST ATLANTIC DIVISION . . . . .	34	21	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NEW JERSEY . . . . . E2	5	3	.2	1.8	.2	.3	1.4	4.9	5.0	9.6	.1	88	(0)
PENNSYLVANIA . . . . .	25	17	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.8	76.6

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	All employees <sup>1</sup> (1,000)	Value added by manufacture (million dollars)
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
3715-- TRUCK TRAILERS--CONTINUED													
NDRTH CENTRAL REGION . . . . .	74	39	6.2	54.8	4.9	9.4	40.7	121.9	169.1	292.0	3.0	8.9	100.0
EAST NDRTH CENTRAL DIVISION. . .	48	26	3.6	33.1	2.9	5.7	25.6	76.4	106.0	183.2	1.9	6.2	69.4
DHIO . . . . . E1	13	5	.5	3.9	.4	.8	3.0	10.7	10.4	21.1	.2	3.0	30.2
INDIANA . . . . .	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	18.6
ILLINDIS . . . . .	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MICHIGAN . . . . . E2	10	5	.4	3.6	.3	.6	2.6	5.4	6.3	11.6	.3	.2	2.1
WISCONSIN . . . . .	6	3	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NDRTH CENTRAL DIVISION. . .	26	13	2.6	21.7	2.0	3.8	15.0	45.5	63.1	108.8	1.0	2.7	30.6
MINNESDIA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
IOWA . . . . .	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.7
MISSDURI . . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEBRASKA . . . . .	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SDUTH REGION . . . . .	87	48	9.0	68.4	7.3	14.2	49.3	130.4	239.7	364.8	7.5	6.3	60.8
SDUTH ATLANTIC DIVISION. . . . .	21	13	2.1	17.2	1.7	3.3	11.5	34.0	70.6	102.7	3.5	EE	(D)
VIRGINIA . . . . .	4	2	AA	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CAROLINA . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEDRGIA . . . . .	6	5	1.1	9.7	.9	1.7	6.4	20.0	39.8	58.8	(D)	CC	(D)
FLDRIDA . . . . .	7	3	.4	3.3	.3	.7	2.3	4.1	8.8	12.5	(D)	BB	(D)
EAST SDUTH CENTRAL DIVISION. . .	15	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	22.0
KENTUCKY . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE . . . . .	4	3	.8	7.0	.7	1.4	5.1	12.5	28.5	40.2	.6	BB	(D)
ALABAMA . . . . .	8	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SDUTH CENTRAL DIVISION. . .	51	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
LDUISIANA . . . . .	4	2	BB	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
DKLAHOMA . . . . .	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	.7
TEXAS . . . . .	28	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	21.0
WEST REGION. . . . .	57	31	4.1	36.8	3.4	6.3	25.7	71.2	110.7	177.0	2.1	2.4	27.9
MOUNTAIN DIVISION. . . . .	9	4	1.0	8.7	.9	1.5	6.1	19.0	29.4	47.2	.6	BB	(D)
COLDRADD . . . . .	2	2	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PACIFIC DIVISION . . . . .	40	27	3.1	28.1	2.5	4.8	19.6	52.3	81.4	129.7	1.5	EE	(D)
WASHINGTON . . . . .	7	6	CC	(U)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.7
DREGON . . . . .	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
CALIFORNIA . . . . .	30	18	2.0	17.6	1.6	3.0	11.9	31.2	49.2	78.2	.8	1.4	16.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other Government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent

E3--30 to 39 percent

E5--50 to 59 percent

E7--70 to 79 percent

E9--90 to 99 percent

E2--20 to 29 percent

E4--40 to 49 percent

E6--60 to 69 percent

E8--80 to 89 percent

E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Motor vehicles and car bodies (SIC 3711)	Truck and bus bodies (SIC 3713)	Motor vehicle parts and accessories (SIC 3714)	Truck trailers (SIC 3715)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT .	96	90	94	96
COVER AGE RATIO <sup>2</sup> . . . . . DO . .	100	91	86	94
ESTABLISHMENTS, TOTAL . . . . . NUMBER .	231	789	2 116	255
WITH 1 TO 19 EMPLOYEES . . . . . DO . .	112	433	1 183	116
WITH 20 TO 99 EMPLOYEES . . . . . DO . .	31	248	482	79
WITH 100 EMPLOYEES OR MORE . . . . . DO . .	88	108	451	60
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000 .	339.2	42.8	399.9	24.7
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS .	4 299.5	354.8	4 587.2	205.6
PRODUCTION WORKERS:				
AVERAGE FOR YEAR . . . . . 1,000 .	284.0	33.3	331.6	19.7
MARCH . . . . . DO . .	282.9	32.2	325.9	18.8
MAY . . . . . DO . .	282.7	33.7	321.3	20.0
AUGUST . . . . . DO . .	265.9	34.2	319.6	19.6
NOVEMBER . . . . . DO . .	305.9	33.0	350.3	20.5
MAN-HOURS . . . . . MILLIONS .	587.9	65.5	694.4	37.8
JANUARY-MARCH . . . . . DO . .	143.1	15.5	170.4	9.1
APRIL-JUNE . . . . . DO . .	150.8	16.6	176.0	9.6
JULY-SEPTEMBER . . . . . DO . .	133.3	16.7	165.6	9.2
OCTOBER-DECEMBER . . . . . DO . .	160.7	16.7	182.4	9.8
WAGES . . . . . MILLION DOLLARS .	3 405.4	245.5	3 608.7	149.1
COST OF MATERIALS, ETC., TOTAL . . . . . DO . .	31 169.4	943.7	9 298.7	684.7
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . . DO . .	30 792.5	884.1	8 922.0	641.3
COST OF REALES . . . . . DO . .	221.7	42.5	132.0	35.9
FUELS CONSUMED . . . . . DO . .	67.3	4.4	67.2	1.8
PURCHASED ELECTRIC ENERGY . . . . . DO . .	84.1	6.3	116.2	3.2
CONTRACT WORK . . . . . DO . .	3.7	6.4	61.2	2.5
VALUE OF SHIPMENTS, INCLUDING REALES . . . . . DO . .	42 905.6	1 569.0	18 277.3	1 117.9
VALUE OF REALES . . . . . DO . .	263.2	54.2	188.1	40.1
VALUE ADDED BY MANUFACTURE . . . . . DO . .	11 782.4	659.2	9 144.7	449.4
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL . . . . . DO . .	1 841.1	245.5	1 824.3	162.5
FINISHED PRODUCTS . . . . . DO . .	211.8	64.0	415.7	23.3
WORK IN PROCESS . . . . . DO . .	807.2	75.4	760.9	25.9
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .	822.0	106.1	647.7	113.3
END OF YEAR, TOTAL . . . . . DO . .	2 183.8	302.7	2 045.1	190.9
FINISHED PRODUCTS . . . . . DO . .	205.9	84.0	464.3	28.8
WORK IN PROCESS . . . . . DO . .	859.6	91.0	874.3	36.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .	1 118.5	127.7	706.6	125.4
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . .	928.3	52.1	1 339.0	15.5
NEW PLANT AND EQUIPMENT, TOTAL . . . . . DO . .	919.0	48.5	1 113.2	14.6
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . .	66.9	22.1	78.9	4.4
NEW MACHINERY AND EQUIPMENT . . . . . DO . .	852.7	26.4	1 034.2	10.2
USED PLANT AND EQUIPMENT . . . . . DO . .	8.7	3.6	225.8	.9

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3711-- MOTOR VEHICLES AND CAR BOODIES											
ESTABLISHMENTS, TOTAL. . . . .	231	339.2	4 299.5	284.0	587.9	3 405.4	11 782.7	31 169.4	42 905.6	919.0	2 183.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E <sub>d</sub>	74	.1	1.1	.1	.2	.8	2.9	5.2	8.0	.3	.8
5 TO 9 EMPLOYEES . . . . . E <sub>7</sub>	24	.2	1.3	.1	.2	1.0	3.0	5.3	8.2	.2	.5
10 TO 19 EMPLOYEES . . . . . E <sub>4</sub>	14	.2	1.5	.2	.3	1.1	2.4	3.8	6.2	.1	.5
20 TO 49 EMPLOYEES . . . . . E <sub>2</sub>	22	.7	5.9	.5	.9	4.2	11.4	13.7	24.9	.4	2.8
50 TO 99 EMPLOYEES . . . . .	9	.6	4.7	.4	.8	3.2	7.6	5.6	12.9	.3	2.7
100 TO 249 EMPLOYEES . . . . .	6	.9	7.1	.8	1.6	5.3	15.3	43.6	65.0	.6	11.5
250 TO 499 EMPLOYEES . . . . .	9	3.1	29.5	2.1	4.2	17.8	89.4	187.8	248.3	2.1	70.1
500 TO 999 EMPLOYEES . . . . .	5	3.4	30.8	2.5	4.6	19.0	60.6	126.7	187.7	4.4	39.7
1,000 TO 2,499 EMPLOYEES . . . . .	13	20.1	246.1	16.0	33.2	183.7	753.2	1 996.2	2 734.7	35.3	224.5
2,500 EMPLOYEES OR MORE. . . . .	55	309.8	3 971.6	261.2	541.9	3 169.4	10 836.9	28 781.2	39 609.7	875.3	1 830.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	54	.1	1.2	.1	.2	.9	2.1	5.9	8.0	.1	.6
3713-- TRUCK AND BUS BOODIES											
ESTABLISHMENTS, TOTAL. . . . .	789	42.8	354.8	33.3	65.5	245.5	659.2	943.7	1 569.0	48.5	302.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E <sub>8</sub>	186	.4	2.8	.4	.6	1.9	4.2	6.6	12.0	.5	2.4
5 TO 9 EMPLOYEES . . . . . E <sub>6</sub>	105	.7	5.4	.6	1.1	3.8	11.1	12.0	22.9	.6	4.3
10 TO 19 EMPLOYEES . . . . . E <sub>2</sub>	142	2.0	14.7	1.5	2.9	10.2	28.4	30.5	58.3	1.9	8.6
20 TO 49 EMPLOYEES . . . . . E <sub>1</sub>	163	5.1	40.1	3.9	7.2	27.2	68.8	90.2	158.3	2.3	25.0
50 TO 99 EMPLOYEES . . . . .	85	5.9	47.4	4.7	9.2	33.4	83.9	124.8	204.0	4.4	37.4
100 TO 249 EMPLOYEES . . . . .	83	12.3	97.2	9.8	19.7	68.0	189.6	278.3	455.8	8.7	88.9
250 TO 499 EMPLOYEES . . . . .	12	4.2	40.4	3.7	7.1	30.1	73.6	95.1	171.0	2.4	28.5
500 TO 999 EMPLOYEES . . . . .	9	5.9	50.1	4.3	8.5	32.0	61.2	95.1	153.6	3.2	35.7
1,000 TO 2,499 EMPLOYEES . . . . .	3	6.2	56.7	4.5	9.3	29.2	128.4	211.1	333.1	24.6	71.9
2,500 EMPLOYEES OR MORE. . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	214	.8	5.5	.6	1.1	3.8	11.2	11.9	23.1	.5	4.6
3714-- MOTOR VEHICLE PARTS, ACCESSORIES											
ESTABLISHMENTS, TOTAL. . . . .	2 116	399.9	4 597.2	331.6	694.4	3 608.7	9 144.7	9 298.7	18 277.3	1 113.2	2 045.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E <sub>d</sub>	719	1.3	11.7	1.2	2.1	8.9	26.9	30.1	57.9	11.5	7.7
5 TO 9 EMPLOYEES . . . . . E <sub>7</sub>	239	1.6	13.6	1.3	2.5	10.2	29.6	27.8	57.1	4.3	7.6
10 TO 19 EMPLOYEES . . . . . E <sub>3</sub>	225	3.1	25.8	2.4	4.8	18.0	55.8	46.4	101.6	5.0	11.9
20 TO 49 EMPLOYEES . . . . . E <sub>1</sub>	299	9.5	76.4	7.6	14.2	51.8	155.8	151.7	302.7	14.4	43.7
50 TO 99 EMPLOYEES . . . . . E <sub>1</sub>	183	12.8	99.9	10.4	20.2	69.7	211.7	218.6	417.3	21.8	67.4
100 TO 249 EMPLOYEES . . . . .	187	30.1	235.5	24.3	48.1	171.9	572.1	564.5	1 114.8	45.0	176.0
250 TO 499 EMPLOYEES . . . . .	119	41.8	325.7	34.6	69.2	243.9	779.4	722.1	1 460.7	33.4	260.8
500 TO 999 EMPLOYEES . . . . .	67	46.8	457.1	37.4	78.0	344.9	955.1	802.0	1 736.2	50.0	278.1
1,000 TO 2,499 EMPLOYEES . . . . .	38	57.2	694.7	46.3	98.8	535.6	1 364.4	1 259.0	2 600.5	72.6	329.4
2,500 EMPLOYEES OR MORE. . . . .	40	195.9	2 646.9	166.3	356.4	2 153.9	4 993.5	5 476.7	10 428.4	855.2	862.5
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	677	1.7	15.9	1.6	2.8	12.2	35.6	37.1	72.6	3.2	10.0
3715-- TRUCK TRAILERS											
ESTABLISHMENTS, TOTAL. . . . .	255	24.7	205.6	19.7	37.8	149.1	449.4	684.7	1 117.9	14.6	190.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E <sub>9</sub>	57	.1	.6	.1	.1	.5	1.3	2.2	3.6	.1	.6
5 TO 9 EMPLOYEES . . . . . E <sub>6</sub>	33	.2	1.6	.2	.3	1.1	3.3	5.3	8.7	.2	1.2
10 TO 19 EMPLOYEES . . . . . E <sub>2</sub>	26	.3	2.4	.3	.5	1.8	4.5	7.6	12.1	.2	1.6
20 TO 49 EMPLOYEES . . . . . E <sub>1</sub>	45	1.5	11.3	1.2	2.3	8.1	19.7	30.3	50.2	.9	6.7
50 TO 99 EMPLOYEES . . . . . E <sub>1</sub>	34	2.4	19.1	1.9	3.9	13.6	37.3	51.5	88.3	1.4	12.9
100 TO 249 EMPLOYEES . . . . .	28	4.4	36.5	3.6	6.7	27.1	65.4	133.5	197.7	2.1	31.1
250 TO 499 EMPLOYEES . . . . .	19	6.9	56.8	5.5	10.4	40.2	128.2	180.8	302.9	5.3	54.6
500 TO 999 EMPLOYEES . . . . .	12	8.8	77.4	7.0	13.6	56.9	189.5	273.5	454.4	4.5	82.2
1,000 TO 2,499 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	69	.3	2.0	.2	.4	1.4	3.7	6.3	10.0	.2	1.9

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other Government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.



TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3711	MOTOR VEHICLES AND CAR BODIES										
	ENTIRE INDUSTRY . . . . .	231	339.2	4 299.5	284.0	587.9	3 405.4	11 782.4	31 169.5	42 905.6	919.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	215	333.9	4 243.4	279.6	579.8	3 362.6	11 915.6	30 812.4	42 649.6	732.3
37111	PASSENGER CARS, AND CHASSIS FOR SALE SEPARATELY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	52	236.4	3 053.1	200.2	419.7	2 444.3	8 894.9	24 171.8	33 083.2	755.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	44	196.0	2 523.8	165.2	346.0	2 008.1	7 016.9	19 254.8	26 314.3	643.1
37112	TRUCK TRACTORS, CHASSIS, AND TRUCKS (OWN CHASSIS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	36	70.4	869.9	56.3	114.5	657.8	2 168.2	5 389.4	7 526.7	136.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	31	65.5	812.6	52.3	106.8	615.7	1 988.7	4 905.3	6 875.3	121.2
37113	BUSES, FIRE DEPT. VEHICLES (ON OWN CHASSIS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	10	3.4	28.3	2.6	4.9	18.6	47.5	96.7	145.5	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	2.6	21.7	2.0	3.7	14.0	36.7	87.2	126.8	.8
37114	COMBAT VEHICLES, TACTICAL VEHICLES (EXC. TANKS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
37115	PASSENGER CAR BODIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3713	TRUCK AND BUS BODIES										
	ENTIRE INDUSTRY . . . . .	789	42.8	354.8	33.3	65.5	245.5	659.2	943.7	1 569.0	48.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	734	35.7	294.3	28.0	55.5	206.5	565.1	792.4	1 327.6	44.4
37131	TRUCK, BUS, OTHER VEHICLE BODIES (NOT PASS. CAR) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	299	22.6	190.6	17.6	34.7	131.1	310.9	367.6	674.6	12.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	247	17.1	141.6	13.5	26.7	100.7	238.0	272.6	509.2	9.5
37132	VEHICLES (EXC. PASS. CARS) MADE ON PURCH. CHASSIS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	111	16.1	134.0	12.5	25.0	93.5	296.5	513.8	779.4	33.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	89	11.7	97.6	9.1	18.6	66.8	222.7	406.5	604.7	29.8
3714	MOTOR VEHICLE PARTS AND ACCESSORIES										
	ENTIRE INDUSTRY . . . . .	2 116	399.9	4 587.2	331.6	694.4	3 608.7	9 144.7	9 298.7	18 277.3	1 113.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 988	357.2	4 122.9	298.4	627.1	3 275.7	8 151.4	8 673.0	16 686.3	1 053.6
37141	MOTOR VEHICLE PARTS, ACCESSORIES, EXC. REBUILT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	800	376.4	4 400.8	312.2	656.6	3 473.6	8 752.1	8 946.3	17 543.6	1 075.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	685	334.4	3 939.6	279.8	590.0	3 145.0	7 775.4	8 321.6	15 965.0	1 022.4
37143	REBUILT MOTOR VEHICLE PARTS (EXC. CARBURETORS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	202	12.9	96.1	10.4	20.7	67.2	198.2	180.9	373.3	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	189	12.1	91.0	9.8	19.6	63.4	186.6	173.2	354.6	6.0
3715	TRUCK TRAILERS										
	ENTIRE INDUSTRY . . . . .	255	24.7	205.6	19.7	37.8	149.1	449.4	684.7	1 117.9	14.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	236	23.2	193.2	18.6	35.4	140.5	428.0	649.6	1 062.2	13.7
37151	TRUCK TRAILERS, CHASSIS, OVER 10,000 LB PER AXLE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	109	22.0	185.4	17.5	33.7	134.5	413.1	619.7	1 016.2	12.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	93	20.5	172.7	16.3	31.3	125.6	389.4	585.0	959.3	12.0
37152	TRUCK TRAILERS, CHASSIS, UNDER 10,000 LB PER AXLE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	28	1.3	9.8	1.1	2.0	7.1	18.6	39.2	58.0	.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3711	Motor vehicles and car bodies.....1972..	42,905.6	40,957.4	1,652.2	296.0	96	41,045.9	40,957.4	88.5	100
	.....1967..	27,296.0	25,831.7	1,045.1	419.2	96	25,921.6	25,831.7	89.9	99
3713	Truck and bus bodies.....1972..	1,569.0	1,320.3	152.3	96.4	90	1,444.0	1,320.3	123.7	91
	.....1967..	706.1	548.7	98.8	58.6	85	595.4	548.7	46.7	92
3714	Motor vehicle parts and accessories.....1972..	18,277.3	16,768.7	1,150.8	357.8	94	19,417.0	16,768.7	2,648.3	86
	.....1967..	11,623.8	10,320.4	1,122.3	181.1	90	11,735.2	10,320.4	1,414.8	88
3715	Truck trailers.....1972..	1,117.9	1,009.5	43.4	65.0	96	1,079.0	1,009.5	69.5	94
	.....1967..	713.9	641.7	39.9	32.3	94	702.3	641.7	60.5	91

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Motor vehicles and car bodies (SIC 3711)	Truck and bus bodies (SIC 3713)	Motor vehicle parts and accessories (SIC 3714)	Truck trailers (SIC 3715)	All other industries
	Total shipments and miscellaneous receipts.....	(X)	42,905.6	1,569.0	18,277.3	1,117.9	(X)
3711-	Motor vehicle and car bodies.....	41,045.9	40,957.4	16.4	10.6	-	61.5
37111	Passenger cars, knocked down or assembled and chassis for sale separately.....	29,246.2	29,201.7	(under 2)	(over 2)	-	(over 2)
37112	Truck tractors, truck chassis, and trucks (chassis of own manufacture).....	9,566.1	9,534.3	9.7	(over 2)	-	(over 2)
37113	Buses (except trolley buses) and fire department vehicles (chassis of own manufacture).....	240.9	235.3	(over 2)	-	-	(over 2)
37114	Combat vehicles, wheel or tracked tactical vehicles or carriers (excluding tanks).....	1,965.7	1,959.1	(under 2)	(under 2)	-	(over 2)
37115	Passenger car bodies.....	27.0	27.0	-	-	-	-
37110	Motor vehicle and car bodies, n.s.k.....						
3713-	Truck and bus bodies.....	1,444.0	11.8	1,320.3	10.4	17.6	83.9
37131	Truck, bus, and other vehicle bodies (except passenger car bodies).....	624.2	5.5	545.9	10.4	16.2	46.2
37132	Complete vehicles (except passenger cars) produced on purchased chassis.....	703.5	6.3	667.3	-	-	29.9
37130	Truck and bus bodies, n.s.k.....	116.3	-	107.1	-	1.4	7.8
3714-	Motor vehicle parts and accessories.....	19,417.0	1,206.5	31.1	16,768.7	6.3	1,404.4
37141	Parts and accessories for motor vehicles, excluding kits and rebuilt parts.....	18,766.8	1,206.5	31.1	16,122.6	6.3	1,400.3
37143	Rebuilt engines and parts for motor vehicles (except carburetors).....	365.6	-	-	361.9	-	3.7
37140	Motor vehicle parts and accessories, n.s.k.....	284.6	-	-	284.2	-	.4
3715-	Truck trailers.....	1,079.0	-	21.3	13.8	1,009.5	34.4
37151	Truck trailers and chassis (10,000 pounds per axle or over).....	964.4	-	20.3	13.8	923.5	6.8
37152	Truck trailers and chassis, less than 10,000 pounds per axle.....	67.5	-	1.0	-	44.3	22.2
37150	Truck trailers, n.s.k.....	47.1	-	-	-	41.7	5.4

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Motor vehicles and car bodies (SIC 3711)	Truck and bus bodies (SIC 3713)	Motor vehicle parts and accessories (SIC 3714)	Truck trailers (SIC 3715)	All other industries
	Other product shipments by 4-digit product group:						
2399	Fabricated textile products, n.e.c.....	(X)	-	-	(over 2)	-	(X)
2451	Mobile homes.....	(X)	-	-	(over 2)	-	(X)
2891	Adhesives and sealants.....	(X)	-	-	(over 2)	-	(X)
3231	Products of purchased glass.....	(X)	-	(under 2)	(over 2)	-	(X)
3321	Gray iron foundries.....	(X)	(over 2)	(under 2)	(under 2)	-	(X)
3362	Brass, bronze, and copper foundries.....	(X)	-	-	(over 2)	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	-	(under 2)	(over 2)	-	(X)
3429	Hardware, n.e.c.....	(X)	-	-	(under 2)	-	(X)
3442	Metal doors, sash, and trim.....	(X)	-	-	(over 2)	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	-	-	(over 2)	(over 2)	(X)
3444	Sheet metalwork.....	(X)	-	(over 2)	(10-20)	(under 2)	(X)
3451	Screw machine products.....	(X)	-	-	6.2	-	(X)
3452	Bolts, nuts, rivets, and washers.....	(X)	-	-	(over 2)	-	(X)
3462	Iron and sheet forgings.....	(X)	(over 2)	-	(over 2)	-	(X)
3465	Automotive stampings.....	(X)	(over 2)	(under 2)	51.8	-	(X)
3469	Metal stampings, n.e.c.....	(X)	(under 2)	-	(over 2)	-	(X)
3489	Ordnance and accessories, n.e.c.....	(X)	-	-	(over 2)	-	(X)
3493	Steel springs, except wire.....	(X)	(over 2)	-	31.8	-	(X)
3494	Valves and pipe fittings.....	(X)	-	-	(over 2)	-	(X)
3496	Miscellaneous fabricated wire products.....	(X)	-	-	(over 2)	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	(under 2)	(over 2)	(under 2)	(X)
3519	Internal combustion engines, n.e.c.....	(X)	(over 2)	-	73.2	-	(X)
3523	Farm machinery and equipment.....	(X)	(over 2)	(under 2)	20.0	(under 2)	(X)
3524	Lawn and garden equipment.....	(X)	-	(under 2)	(over 2)	-	(X)
3531	Construction machinery.....	(X)	(over 2)	(over 2)	12.2	(under 2)	(X)
3536	Hoists, cranes, and monorails.....	(X)	-	(over 2)	-	-	(X)
3537	Industrial trucks and tractors.....	(X)	-	(over 2)	(over 2)	(under 2)	(X)
3561	Pumps and pumping equipment.....	(X)	(under 2)	-	(over 2)	-	(X)
3568	Power transmission equipment, n.e.c.....	(X)	-	(under 2)	22.1	-	(X)
3585	Refrigeration and heating equipment.....	(X)	-	(under 2)	(20-50)	(under 2)	(X)
3592	Carburetors, pistons, rings, valves.....	(X)	-	-	(5-10)	-	(X)
3599	Machinery, except electrical, n.e.c.....	(X)	(under 2)	(under 2)	15.4	-	(X)
3621	Motors and generators.....	(X)	-	-	(50-100)	-	(X)
3633	Household laundry equipment.....	(X)	-	-	(over 2)	-	(X)
3635	Household vacuum cleaners.....	(X)	-	-	(over 2)	-	(X)
3641	Electric lamps.....	(X)	-	-	(over 2)	-	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	-	-	(over 2)	-	(X)
3662	Radio and TV communication equipment.....	(X)	-	(under 2)	(2-5)	-	(X)
3679	Electronic components, n.e.c.....	(X)	-	-	(over 2)	-	(X)
3694	Engine electrical equipment.....	(X)	-	-	(100-200)	-	(X)
3699	Electrical equipment and supplies, n.e.c.....	(X)	-	-	(over 2)	-	(X)
3724	Aircraft engines and engine parts.....	(X)	-	-	8.5	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	(under 2)	-	2.6	-	(X)
3743	Railroad equipment.....	(X)	-	-	(over 2)	-	(X)
3751	Motorcycles, bicycles, and parts.....	(X)	-	-	(over 2)	-	(X)
3792	Travel trailers and campers.....	(X)	(under 2)	39.7	(under 2)	-	(X)
3795	Tanks and tank components.....	(X)	(over 2)	-	(over 2)	-	(X)
3799	Transportation equipment, n.e.c.....	(X)	(under 2)	(over 2)	(over 2)	4.1	(X)
3822	Environmental controls.....	(X)	-	-	(over 2)	-	(X)
3823	Process control instruments.....	(X)	-	-	(over 2)	-	(X)
3824	Fluid meters and counting devices.....	(X)	-	-	(over 2)	-	(X)
3825	Instruments to measure electricity.....	(X)	-	-	(over 2)	-	(X)
3842	Surgical appliances and supplies.....	(X)	-	-	(over 2)	-	(X)
	Miscellaneous receipts.....	(X)	296.0	96.4	357.8	65.0	(X)
9300000	Contract work.....	(X)	.3	4.9	27.2	.8	(X)
9998013	Sales of scrap and refuse.....	(X)	28.5	2.1	105.6	2.4	(X)
9998031	Receipts for installation.....	(X)	.5	3.6	.3	5.8	(X)
9998041	Receipts for research and development work.....	(X)	-	.4	.1	-	(X)
9998061	Receipts for repair work.....	(X)	1.9	23.4	6.0	11.2	(X)
9998098	Other miscellaneous receipts.....	(X)	1.6	7.8	30.5	4.7	(X)
9998900	Resales.....	(X)	263.2	54.2	188.1	40.1	(X)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of primary product			Listing of other industries with over \$2 million shipments of primary products--Continued	
3711-	3531 Construction machinery.....	(10-20)	3714	3536 Hoists, cranes, and monorails.....	(over 2)
3713-	3441 Fabricated structural metal.....	(2-5)		3537 Industrial trucks and tractors.....	(2-5)
	3443 Fabricated platework (boiler shops).....	3.7		3544 Special dies, tools, jigs and fixtures.....	(5-10)
	3444 Sheet metalwork.....	(5-10)		3545 Machine tool accessories.....	(over 2)
	3465 Automotive stampings.....	(over 2)		3552 Textile machinery.....	(over 2)
	3531 Construction machinery.....	10.4		3559 Special industry machinery, n.e.c.....	(2-5)
	3536 Hoists, cranes, and monorails.....	(5-10)		3561 Pumps and pumping equipment.....	(over 2)
	3599 Machinery, except electrical, n.e.c.....	2.2		3562 Ball and roller bearings.....	(over 2)
	3634 Electric housewares and fans.....	(over 2)		3568 Power transmission equipment, n.e.c.....	38.2
	3792 Travel trailers and campers.....	29.6		3579 Office machines, n.e.c.....	(2-5)
	3795 Tanks and tank components.....	(over 2)		3585 Refrigeration and heating equipment.....	347.4
3714	2499 Wood products, n.e.c.....	(over 2)		3586 Measuring and dispensing pumps.....	(5-10)
	3011 Tires and inner tubes.....	(20-50)		3592 Carburetors, pistons, rings, valves.....	87.4
	3069 Fabricated rubber products, n.e.c.....	(5-10)		3599 Machinery, except electrical, n.e.c.....	12.1
	3079 Miscellaneous plastics products.....	(10-20)		3613 Switchgear and switchboard apparatus.....	(5-10)
	3321 Gray iron foundries.....	(over 2)		3621 Motors and generators.....	(10-20)
	3325 Steel foundries, n.e.c.....	(over 2)		3622 Industrial controls.....	(2-5)
	3361 Aluminum foundries.....	(2-5)		3647 Vehicular lighting equipment.....	(50-100)
	3423 Hand and edge tools, n.e.c.....	(2-5)		3651 Radio and TV receiving sets.....	(20-50)
	3429 Hardware, n.e.c.....	(2-5)		3694 Engine electrical equipment.....	158.4
	3443 Fabricated platework (boiler shops).....	(2-5)		3724 Aircraft engines and engine parts.....	(20-50)
	3462 Iron and steel forgings.....	(10-20)		3728 Aircraft equipment, n.e.c.....	4.4
	3465 Automotive stampings.....	8.7		3761 Guided missiles and space vehicles.....	(over 2)
	3479 Metal coating and allied services.....	(over 2)		3799 Transportation equipment, n.e.c.....	(2-5)
	3493 Steel springs, except wire.....	(5-10)	3715	3823 Process control instruments.....	(over 2)
	3495 Wire springs.....	(over 2)		3441 Fabricated structural metal.....	(2-5)
	3519 Internal combustion engines, n.e.c.....	(50-100)		3443 Fabricated platework (boiler shops).....	(2-5)
	3523 Farm machinery and equipment.....	8.9		3448 Prefabricated metal buildings.....	(over 2)
	3531 Construction machinery.....	52.6		3531 Construction machinery.....	(2-5)
				3559 Special industry machinery, n.e.c.....	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3711- --	MOTOR VEHICLES AND CAR BODIES, TOTAL.....	.....	(X)	41,045.9	(X)	25,921.6
37111 --	Passenger Cars, Knocked Down or Assembled, and Chassis for Sale Separately.....	1,000 units...	8,854.0	29,246.2	7,319.7	19,277.4
37111 11	Complete vehicles, knocked down or assembled, including station wagons, ambulances, hearses, and taxicabs if produced on passenger-car chassis. For vehicles assembled abroad value is on same basis as for domestic interplant shipments of knocked down vehicles (value includes extra equipment billed with vehicles) <sup>1</sup> .....	...do.....	8,848.6	29,229.3	7,319.7	19,277.4
37111 51	Chassis for sale separately.....	...do.....	5.4	16.9		
37112 --	Truck Tractors, Truck Chassis, and Trucks (Chassis of Own Manufacture).....	.....	(X)	9,566.1	(X)	4,263.7
	Trucks, truck tractors, and truck chassis, knocked down or assembled, including trucks such as pickup, panel delivery, or other commercial cars made on passenger-car chassis if chassis are of own manufacture; including station wagons, motor homes, ambulances, hearses, and taxicabs if produced on truck chassis; and all truck chassis whether or not to be used for trans- portation of property such as fire apparatus, street sprinklers, school buses and ambulances. (Excludes specialized road construction machinery and off-the-highway trucks.) To be reported in number of units and value of shipments for each gross-vehicle-weight category, including value of bodies and other equipment billed with vehicles:					
	Trucks and truck tractors by gross vehicle weight:					
37112 11	6,000 pounds and less.....	1,000 units...	1,306.7	3,675.5	918.3	1,713.5
37112 13	6,001 to 10,000 pounds.....	...do.....	667.6	2,006.2	287.0	589.6
37112 15	10,001 to 14,000 pounds.....	...do.....	76.7	246.9	11.4	28.5
37112 17	14,001 to 16,000 pounds.....	...do.....	35.6	189.4	12.7	32.5
37112 21	16,001 to 19,500 pounds.....	...do.....	54.4	209.9	81.6	239.6
37112 23	19,501 to 26,000 pounds.....	...do.....	152.2	963.9	106.4	400.0
37112 25	26,001 to 33,000 pounds.....	...do.....	27.2	246.7	41.0	292.1
37112 27	33,001 to 44,000 pounds.....	...do.....	76.6	1,197.1	44.8	506.4
37112 28	Over 44,000 pounds.....	...do.....	41.5	815.0	35.8	453.9
	Number shipped by body type (quantity only): <sup>1</sup>					
37112 31	Pickup.....	...do.....	1,223.7	(X)	809.3	(X)
37112 33	Panel.....	...do.....	4.2	(X)	26.5	(X)
37112 35	Multistop.....	...do.....	5.7	(X)		
37112 37	Van.....	...do.....	278.3	(X)	119.6	(X)
37112 38	Motor homes.....	...do.....	3.1	(X)	( <sup>2</sup> )	(X)
37112 41	Station wagon.....	...do.....	103.1	(X)	51.6	(X)
37112 45	General utility.....	...do.....	136.7	(X)	295.6	(X)
37112 49	Other body types.....	...do.....	134.9	(X)		
	Chassis (quantity only):					
37112 53	With cab.....	...do.....	447.7	(X)	392.7	(X)
37112 55	Without cab.....	...do.....	101.1	(X)	39.5	(X)
37112 00	Truck tractors, truck chassis, and trucks (chassis of own manufacture) not specified by kind.....	.....	(X)	15.5	(X)	7.6
37113 --	Buses (Except Trolley Buses) and Fire Department Vehicles (Chassis of Own Manufacture) <sup>1</sup> .....	.....	(X)	240.9	(X)	179.8
37113 13	Buses (body mounted on chassis of own manufacture), including military but excluding trolley buses.....	1,000 units...	7.8	196.8	1.0	17.9
37113 15	Buses (consisting of integrally constructed body-chassis frame, usually rear-engine mounted) such as those usually delivered to common carriers or franchised operators for city and intercity transit, charter hire, or sightseeing; school and government...	...do.....				
37113 21	Fire department vehicles.....	...do.....	1.0	44.1	8.1 .6	141.6 20.3
37114 11	Combat vehicles, wheeled or tracked tactical vehicles or carriers, excluding tanks.....	...do.....	(NA)	1,965.7	(NA)	2,160.1
37115 11	Passenger car bodies.....	...do.....				
37110 00	Motor vehicles, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	19.0	(X)	40.7
37110 02	Motor vehicles, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	8.0		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3713- --	TRUCK AND BUS BODIES, TOTAL <sup>3</sup> .....	.....	(X)	<sup>1</sup> 1,444.0	(X)	595.4
37131 --	Truck, Bus, and Other Vehicle Bodies (Except Passenger Car Bodies) <sup>4</sup> .....	.....	(X)	624.2	(X)	404.3
	Truck, bus, and other vehicle bodies (except passenger car bodies) sold separately:					
37131 12	To motor vehicle manufacturers, including interplant transfers	1,000 units...	67.2	47.9	101.1	76.3
	To other than motor vehicle manufacturers, including bodies installed on chassis owned by others:					
	Truck bodies:					
37131 21	Van.....	...do.....	29.7	54.0	27.0	33.0
37131 23	Multistop.....	...do.....	28.0	52.0	13.9	24.1
37131 25	Pickup.....	...do.....	4.4	4.0	1.9	3.7
37131 27	Panel.....	...do.....	.2	.5	1.1	1.4
37131 33	Dump.....	...do.....	39.2	61.9	42.0	38.3
37131 34	Stake and platform.....	...do.....	50.0	26.8	32.5	14.0
37131 36	Utility, including service and line construction, and repair types.....	...do.....	(NA)	63.9	(NA)	52.3
37131 37	Tank, including street flushing, petroleum, and other tank types.....	...do.....	2.5	16.7	1.5	6.2
37131 38	Refuse and garbage (packer type).....	...do.....	13.5	86.0	6.5	31.0
37131 39	Other.....	...do.....	37.1	84.7	29.2	38.6
37131 51	Bus bodies.....	...do.....	26.0	82.3	27.2	62.9
37131 55	Other vehicle bodies (ambulance, hearse, fire department, etc., except passenger car).....	...do.....	(NA)	43.5	15.9	22.5
37132 --	Complete Vehicles (Except Passenger Cars) Produced on Purchased Chassis <sup>4</sup> .....	.....	(X)	703.5	(X)	123.3
37132 71	Ambulances.....	1,000 units...	1.1	12.9	3.5	20.5
37132 75	Hearses and undertakers' vehicles, except limousines.....	...do.....	2.5	28.5	1.7	12.9
37132 77	Fire department vehicles.....	...do.....	1.4	36.8	1.6	17.9
37132 78	Motor homes.....	...do.....	61.9	509.6		
37132 79	Buses (body mounted on purchased chassis), including military, but excluding trolley buses.....	.....	(X)	34.9		
37132 98	All other highway vehicles, including trucks (platform, stake, van, tank, dump, etc.), street cleaning apparatus, rotary and blow-type snowplows, pickup sweepers, noncombat amphibious vehicles, etc.....	.....	(X)	80.8	(X)	72.0
37130 00	Truck and bus bodies, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	93.2	(X)	52.0
37130 02	Truck and bus bodies, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	23.1	(X)	15.8

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers						
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export	
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)	(million dollars)	(million dollars)	
			1972						
3714- --	MOTOR VEHICLE PARTS AND ACCESSORIES, TOTAL.....		(X)	<sup>5</sup> 19,417.0	(X)	(X)	(X)	(X)	
37141 --	Parts and Accessories for Motor Vehicles, Excluding Kits and Rebuilt Parts.....		(X)	18,766.8	(X)	(X)	(X)	(X)	
	Parts and accessories for motor vehicles, passenger cars, trucks, and buses, excluding n.s.k.....		(X)	<sup>6</sup> 18,573.7	(X)	2,818.1	14,818.9	1,129.8	
37141 11	Gasoline engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories).....	Mil. units.	8.0	2,516.5	.2	52.8	2,229.0	234.7	
37141 17	Hub and drum assemblies.....	..do....	67.2	600.7	8.5	61.1	531.0	8.6	
37141 21	Fuel pump assemblies.....	..do....	20.8	57.5	7.9	27.1	28.8	1.6	
37141 23	Water pump assemblies.....	..do....	11.6	75.9	6.6	42.4	28.9	4.6	
	Exhaust systems:								
37141 27	Mufflers, including regular or standard, sport or glass pack and resonators.....	..do....	54.5	235.2	32.5	129.7	99.4	6.1	
37141 29	Pipes, including exhaust tail, intermediate, connecting and crossover.....	..do....	66.6	165.7	42.3	98.8	63.5	3.4	
37141 31	Radiators, complete.....	..do....	11.6	312.8	.8	27.3	285.5		
	Brake cylinders:								
37141 32	Wheel.....	..do....	46.4	63.0	5.5	11.4	44.8	6.8	
37141 34	Master.....	..do....	15.2	100.2	(NA)	92.9		7.3	
	Wheels:								
37141 35	Passenger car type.....	..do....	47.9	223.0	7.9	68.6	154.4		
37141 37	Truck and bus type, including those for truck trailers and trailer coaches.....	..do....	21.0	231.8	2.3	40.3	181.3	10.2	
	Transmissions, except auxiliary:								
	Passenger car type:								
37141 41	Conventional transmission.....	..do....	.6	51.6	(NA)	44.9		6.7	
37141 43	Automatic transmissions.....	..do....	9.6	1,518.0	(NA)		1,518.0		
	Truck and bus type:								
37141 45	Conventional transmissions.....	..do....	1.5	349.0	(NA)	320.8		28.2	
37141 47	Automatic transmissions.....	..do....	1.1	168.4	(NA)		168.4		
37141 51	Universal joints.....	..do....	22.2	134.1	.6	10.7	116.1	7.3	
37141 61	Shock absorbers.....	..do....	111.8	306.3	53.8	193.4	98.3	14.6	
37141 81	Clutch disc and facing assemblies.....	..do....	16.1	107.1	6.8	46.1	49.1	11.9	
	Filters:								
37141 24	Fuel.....	..do....	25.2	14.1	18.9	12.1	2.0		
37141 25	Oil.....	..do....	250.7	266.8	208.9	223.5	36.4	6.9	
37141 26	Air.....	..do....	59.2	94.9	49.7	59.4	29.5	6.0	
	Engine bearings:								
37141 56	Main (halves).....	..do....	289.6	39.0	28.5	8.5	28.1	2.4	
37141 57	Connecting rod (halves).....	..do....	193.3	37.5	44.6	10.4	25.1	2.0	
37141 58	Camshaft (halves).....	..do....	45.7	7.4	3.2	.8	6.1	.5	
37141 63	Oil pumps.....	..do....	2.9	16.5	(NA)		16.5		
37141 64	Oil pumps for power steering.....	..do....	3.6	45.7	.2	3.4	38.3	4.0	
37141 65	Thermostats (engine, cooling system).....	..do....	18.5	16.5	12.3	9.6	6.9		
37141 67	Tie rod ends.....	..do....	(7)	(7)	(7)	(7)	(7)	(7)	
37141 71	Universal joint repair kits.....	..do....	10.3	19.5	(NA)		19.5		
37141 73	Windshield wipers: blades, motors, arms.....	..do....	120.0	124.0	(NA)		124.0		
37141 75	Camshafts.....	..do....	3.5	25.9	2.5	23.1	2.3	.5	
37141 76	Rocker arms and parts.....	..do....	51.5	22.8	4.4	2.1	18.2	2.5	
37141 78	Valve guide, seats, tappets.....	..do....	56.2	38.4	15.4	8.9	29.5		
37141 53	Turn signal flashers.....	..do....	18.4	13.0	(NA)		13.0		
37141 55	Ball joints.....	..do....	35.7	65.9	8.9	30.0	32.6	3.3	
37141 87	Convertible tops.....	..do....	1.3	11.2	(NA)		11.2		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers					
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)	(million dollars)	(million dollars)
1972								
3714- --	MOTOR VEHICLE PARTS AND ACCESSORIES—Continued							
37141 --	Parts and Accessories for Motor Vehicles, Excluding Kits and Rebuilt Parts—Continued							
	Parts and accessories for motor vehicles, passenger cars, trucks, and buses, excluding n.s.k.—Continued							
37141 91	Automotive air-conditioning hose assemblies.....do.....	}	(NA)	24.3	(NA)	24.3		
37141 93	Automotive power steering hose assemblies (power transfer and cooling).....do.....							
37141 95	Automotive brake hose assemblies.....do.....							
37141 98	All other parts and accessories for passenger cars, trucks, and buses.....do.....		27.5	25.2	(NA)	25.2		
37141 00	Parts and accessories for motor vehicles, excluding kits and rebuilt parts, n.s.k.....do.....		(X)	<sup>5</sup> 10,448.3	(X)	<sup>7</sup> 1,505.0	<sup>7</sup> 7,036.2	<sup>7</sup> 570.5
			(X)	193.1	(X)	(X)	(X)	(X)
37143 --	Rebuilt Engines and Parts for Motor Vehicles (Except Carburetors) <sup>8</sup> .....		(X)	365.6	(X)	(X)	(X)	(X)
37143 21	Fuel pumps.....Mil. units.		2.5	9.7	(X)	(X)	(X)	(X)
37143 23	Water pumps.....do.....		6.2	31.6	(X)	(X)	(X)	(X)
37143 26	Clutch discs and pressure plates.....do.....		5.4	44.5	(X)	(X)	(X)	(X)
37143 31	Engines, gasoline.....do.....		.3	72.1	(X)	(X)	(X)	(X)
37143 44	Automatic transmissions.....do.....		.1	7.1	(X)	(X)	(X)	(X)
37143 98	All other rebuilt parts.....do.....		(X)	189.4	(X)	(X)	(X)	(X)
37143 00	Rebuilt engines and parts for motor vehicles (except carburetors), n.s.k.....do.....		(X)	11.2	(X)	(X)	(X)	(X)
37140 00	Motor vehicle parts and accessories, n.s.k., for establishments with 10 employees or more. (See note.).....do.....		(X)	211.6	(X)	(X)	(X)	(X)
37140 02	Motor vehicle parts and accessories, n.s.k., for establishments with less than 10 employees. (See note.).....do.....		(X)	73.0	(X)	(X)	(X)	(X)
1967								
3714- --	MOTOR VEHICLE PARTS AND ACCESSORIES, TOTAL.....do.....		(X)	11,735.2	(X)	(X)	(X)	(X)
37141 --	Parts and Accessories for Motor Vehicles, Excluding Kits and Rebuilt Parts.....do.....		(X)	11,326.9	(X)	(X)	(X)	(X)
	Parts and accessories for motor vehicles, passenger cars, trucks, and buses, excluding n.s.k.....do.....		(X)	11,270.9	(X)	1,953.1	8,818.3	499.1
37141 11	Gasoline engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories).....Mil. units.		7.1	1,770.7	.1	36.0	1,650.7	84.0
37141 17	Hub and drum assemblies.....do.....		39.1	212.0	2.5	15.4	193.4	3.2
37141 21	Fuel pump assemblies.....do.....		16.0	45.1	6.6	23.6	21.5	
37141 23	Water pump assemblies.....do.....		4.3	23.2	(NA)	16.7	4.8	1.7
37141 27	Exhaust systems: Mufflers, including regular or standard, sport or glass pack and resonators.....do.....		46.8	142.4	26.5	77.0	64.4	1.0
37141 29	Pipes, including exhaust tail, intermediate, connecting and crossover.....do.....		63.7	94.1	36.0	49.0	44.4	.7
37141 31	Radiators, complete.....do.....		9.6	207.2	1.1	7.5	199.6	
37141 32	Brake cylinders: Wheel.....do.....		45.1	38.6	16.8	15.0	21.6	2.0
37141 34	Master.....do.....		9.8	42.5	2.8	14.8	26.1	1.7
37141 35	Wheels: Passenger car type.....do.....		44.3	117.6	3.2	20.2	97.4	
37141 37	Truck and bus type, including those for truck trailers and trailer coaches.....do.....		10.4	140.8	(NA)	140.8		
37141 41	Transmissions, except auxiliary: Passenger car type: Conventional transmission.....do.....		.9	79.3	(NA)	10.7	63.0	5.5
37141 43	Automatic transmissions.....do.....		6.9	937.4	(NA)	6.0	889.5	41.9
37141 45	Truck and bus type: Conventional transmissions.....do.....	}	1.4	272.4	(NA)	272.4		
37141 47	Automatic transmissions.....do.....							
37141 51	Universal joints.....do.....		(NA)	70.3	(NA)	11.8	54.6	3.9
37141 61	Shock absorbers.....do.....		41.1	105.6	23.4	74.0	26.9	4.7
37141 81	Clutch disc and facing assemblies.....do.....		9.9	69.2	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Product shipments including interplant transfers						
			Total product shipments including interplant transfers		Domestic shipments for replacement including ship- ments to U.S. motor vehicle manufacturers for resale		Value of ship- ments to U.S. motor vehicle manufacturers or their sup- pliers for use in original equipment	Value of ship- ments for ex- port, including transfers to other divisions for export	
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)	(million dollars)	(million dollars)	
			1967						
3714- -- 37141 --	MOTOR VEHICLE PARTS AND ACCESSORIES—Continued Parts and Accessories for Motor Vehicles, Excluding Kits and Rebuilt Parts—Continued Parts and accessories for motor vehicles, passenger cars, trucks, and buses, excluding n.s.k.—Continued								
	Filters:								
37141 24	Fuel.....	Mil. units.	}	(X)	6,902.5	(X)	1,498.1	5,093.0	311.5
37141 25	Oil.....	do.							
37141 26	Air.....	do.							
	Engine bearings:								
37141 56	Main.....	do.							
37141 57	Connecting rod.....	do.							
37141 58	Camshaft.....	do.							
37141 63	Oil pumps.....	do.							
37141 64	Oil pumps for power steering.....	do.							
37141 65	Thermostats (engine, cooling system).....	do.							
37141 67	Tie rod ends.....	do.							
37141 71	Universal joint repair kits.....	do.							
37141 73	Windshield wipers: blades, motors, arms.....	do.							
37141 75	Camshafts.....	do.							
37141 76	Rocker arms and parts.....	do.							
37141 78	Valve guides, seats, tappets.....	do.							
37141 53	Turn signal flashers.....	do.							
37141 55	Ball joints.....	do.							
37141 87	Convertible tops.....	do.							
37141 91	Automotive air-conditioning hose assemblies.....	do.							
37141 93	Automotive power steering hose assemblies (power transfer and cooling).....	do.							
37141 95	Automotive brake hose assemblies.....	do.							
37141 98	All other parts and accessories for passenger cars, trucks, and buses.....	do.							
37141 00	Parts and accessories for motor vehicles, excluding kits and rebuilt parts, n.s.k.....		(X)	56.0	(X)	(X)	(X)	(X)	
37143 --	Rebuilt Engines and Parts for Motor Vehicles (Except Carburetors) <sup>8</sup> .....		(X)	197.5	(X)	(X)	(X)	(X)	
37143 21	Fuel pumps.....	Mil. units.	8.1	15.9	(X)	(X)	(X)	(X)	
37143 23	Water pumps.....	do.	(NA)	9.0	(X)	(X)	(X)	(X)	
37143 26	Clutch discs and pressure plates.....	do.	5.3	29.4	(X)	(X)	(X)	(X)	
37143 31	Engines, gasoline.....	do.	.3	45.2	(X)	(X)	(X)	(X)	
37143 44	Automatic transmissions.....	do.	(NA)	5.1	(X)	(X)	(X)	(X)	
37143 98	All other rebuilt parts.....		(X)	90.2	(X)	(X)	(X)	(X)	
37143 00	Rebuilt engines and parts for motor vehicles (except carburetors), n.s.k.....		(X)	2.6	(X)	(X)	(X)	(X)	
37140 00	Motor vehicle parts and accessories, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	179.2	(X)	(X)	(X)	(X)	
37140 02	Motor vehicle parts and accessories, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	31.5	(X)	(X)	(X)	(X)	

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3715- --	TRUCK TRAILERS, TOTAL.....	.....	(X)	1,079.0	(X)	702.2
37151 --	Truck Trailers and Chassis (10,000 Pounds Per Axle or Over) <sup>9</sup> .....	.....	(X)	964.4	(X)	643.5
37151 10	Complete trailer units:	.....				
	As reported in the census of manufactures.....	.....	(X)	856.9	(X)	<sup>10</sup> 643.5
	As reported in Current Industrial Reports series M-37L.....	1,000 units...	145.4	808.5	96.5	516.3
	Vans.....	...do.....	95.9	531.9	59.1	318.6
	Closed top:	.....				
	Insulated, semi-insulated, and refrigerated.....	...do.....	14.1	118.5	11.4	90.1
37151 03	Steel.....	...do.....	14.1	118.5	11.4	90.1
37151 13	Aluminum.....	...do.....				
	Drop-frame type (12 inches or more drop), including furniture drop frame but excluding livestock drop frame.....	...do.....	5.3	31.3	2.8	16.3
37151 05	Steel.....	...do.....	1.5	8.9	1.6	9.4
37151 15	Aluminum.....	...do.....	3.8	22.4	1.2	6.9
	Livestock, including livestock drop frame.....	...do.....	1.8	17.6	1.1	9.1
37151 07	Steel.....	...do.....	1.8	17.6	1.1	9.1
37151 17	Aluminum.....	...do.....				
	All other closed-top dry freight vans.....	...do.....	70.5	340.4	40.6	186.2
37151 09	Steel.....	...do.....	1.2	6.0	40.6	186.2
37151 19	Aluminum.....	...do.....	69.3	334.4		
	Open top, including low-side grain, fruit, etc.....	...do.....	4.3	24.1	3.3	16.8
37151 12	Steel.....	...do.....	1.0	5.3	1.1	5.4
37151 21	Aluminum.....	...do.....	3.3	18.8	2.2	11.5
	Tanks.....	...do.....	5.3	67.2	7.2	73.0
	Other than high pressure:	.....				
	For flammable liquids, except casing head transport, including aircraft refuelers:	.....				
37151 22	Steel (MC 306 type).....	...do.....	2.7	31.3	2.9	27.9
37151 23	Aluminum (MC 306 type).....	...do.....				
	For asphalt:	.....				
37151 24	Steel.....	...do.....	.8	8.3	.5	4.7
37151 25	Aluminum.....	...do.....				
37151 26	For casing head transport (MC 307 type).....	...do.....	.6	9.0		
37151 27	For chemicals & acids (MC 312 type).....	...do.....				
37151 29	All other, including food and milk, sanitary, and cryogenics.....	...do.....	1.3	18.5	3.8	40.4
37151 31	High pressure (MC 331 type) (LPG, anhydrous ammonia, etc.).....	...do.....				
37151 33	Bulk commodity and dry materials, including pneumatic and mechanical discharge (both tank and hopper types), except vans.....	...do.....	1.8	19.8	1.1	11.4
37151 35	Pole and logging.....	...do.....	1.9	10.1	1.3	4.8
37151 37	Platform.....	...do.....	22.8	87.2	15.5	59.4
37151 41	Low-bed heavy haulers (over 10-ton capacity).....	...do.....	3.9	24.8	3.4	17.3
37151 43	Dump trailers and dump chassis, highway type (rear, side and bottom dump, including nonpneumatic hoppers).....	...do.....	5.4	35.0	2.8	16.3
37151 45	Dollies or converter gear.....	...do.....	2.1	3.3	3.8	6.6
37151 49	All other trailers and chassis, except detachable trailers and detachable trailer chassis.....	...do.....	6.4	29.2	2.3	9.1
37151 50	Detachables trailer bodies and detachables trailer chassis: <sup>9</sup>	.....				
	As reported in the census of manufactures.....	.....	(X)	107.5	(X)	( <sup>10</sup> )
	As reported in Current Industrial Reports series M-37L.....	1,000 units...	40.3	102.2	27.5	74.5
37151 53	Detachables trailer bodies, sold separately.....	...do.....	20.0	56.3	17.0	52.6
37151 54	Detachables trailer chassis, sold separately.....	...do.....	20.3	45.9	10.5	21.9
37152 --	Truck Trailers and Chassis, Less Than 10,000 Pounds Per Axle.....	...do.....	56.7	67.5	39.0	25.7
37152 55	Truck trailers and truck trailer chassis with axle rates less than 10,000 pounds.....	...do.....	56.7	67.5	39.0	25.7
37150 00	Truck trailers, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	37.1	(X)	30.7
37150 02	Truck trailers, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	10.0	(X)	2.4

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

Footnotes continued on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A--Continued)

(X) Not applicable. (NA) Not available.

<sup>1</sup>Complete vehicles, except passenger cars, produced on purchased chassis are shown as product codes 37132 71 through 37132 98.<sup>2</sup>Included with product code 37112 49, "Other body types," in 1967.<sup>3</sup>Truck and bus bodies built by garages, service stations, and other establishments primarily engaged in nonmanufacturing activities are excluded.<sup>4</sup>The product class structure for this industry was revised effective with 1972.<sup>5</sup>This figure is limited to shipments of products classified in industry 3714. There were additional shipments of motor vehicle parts by parts producers, including spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, and springs which are classified outside industry 3714.<sup>6</sup>Includes \$1,336.6 million for which respondents did not supply information as to whether shipments were for replacement, OEM, or for export.<sup>7</sup>Product code 37141 67 has been combined with 37141 98 in order to avoid disclosing figures of individual companies.<sup>8</sup>Data are limited to rebuilding on a factory basis. Rebuilding operations performed in service stations, garages, etc., are excluded from the census of manufactures. Also, these figures may be somewhat understated because of the exclusion of data for establishments with less than 10 employees. Such establishments were typically not included in the mail portion of the census of manufactures, but were included in the published data by the use of estimates from administrative records. These estimates are included in the value shown for product code 37140 02. Although the use of such administrative records tends to create a small understatement for most specific products, the effect is more significant for those products typically produced in small establishments, such as rebuilding facilities.<sup>9</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.<sup>10</sup>In 1967, product code 37151 50 is combined with product code 37151 10.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PASSENGER CARS, KNOCKED DOWN OR ASSEMBLED, AND CHASSIS FOR SALE SEPARATELY (37111)			TRUCK TRACTORS, TRUCK CHASSIS, AND TRUCKS (CHASSIS OF OWN MANUFACTURE) (37112)		
United States.....	29,246.2	19,277.4	United States.....	9,627.1	4,263.7
Northeast Region.....	GG	GG	Northeast Region.....	GG	454.9
New England Division.....	GG	GG	Middle Atlantic Division.....	GG	GG
Massachusetts.....	GG	( <sup>1</sup> )	New York.....	GG	GG
Middle Atlantic Division.....	GG	GG	New Jersey.....	GG	GG
New York.....	GG	GG	Pennsylvania.....	GG	GG
New Jersey.....	GG	GG			
Pennsylvania.....	AA	( <sup>1</sup> )	North Central Region.....	GG	2,645.4
North Central Region.....	18,683.5	12,783.8	East North Central Division.....	5,040.7	2,104.1
East North Central Division.....	GG	10,390.5	Ohio.....	GG	GG
Ohio.....	GG	1,209.7	Indiana.....	GG	GG
Indiana.....	AA	CC	Illinois.....	CC	CC
Illinois.....	GG	GG	Michigan.....	GG	1,160.8
Michigan.....	10,208.5	7,412.5	Wisconsin.....	GG	GG
Wisconsin.....	GG	GG	West North Central Division.....	GG	541.3
West North Central Division.....	GG	2,393.4	Minnesota.....	GG	EE
Minnesota.....	GG	GG	Iowa.....	AA	( <sup>1</sup> )
Missouri.....	GG	GG	Missouri.....	1,213.9	EE
Kansas.....	GG	GG			
South Region.....	GG	3,072.3	South Region.....	GG	594.2
South Atlantic Division.....	GG	GG	South Atlantic Division.....	GG	GG
Delaware.....	GG	GG	Maryland.....	GG	GG
Maryland.....	GG	GG	Virginia.....	GG	FF
Virginia.....	GG	GG	Georgia.....	GG	GG
Georgia.....	GG	GG	East South Central Division.....	GG	GG
East South Central Division.....	GG	GG	Kentucky.....	GG	GG
Kentucky.....	GG	GG	Tennessee.....	GG	( <sup>1</sup> )
West South Central Division.....	GG	( <sup>1</sup> )	West South Central Division.....	CC	FF
Texas.....	GG	( <sup>1</sup> )	Texas.....	CC	FF
West Region.....	GG	GG	West Region.....	1,233.2	568.6
Pacific Division.....	GG	GG	Pacific Division.....	1,233.2	568.7
California.....	GG	GG	Washington.....	GG	FF
			Oregon.....	GG	FF
			California.....	GG	GG

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BUSES (EXCEPT TROLLEY BUSES) AND FIRE DEPARTMENT VEHICLES (CHASSIS OF OWN MANUFACTURE) (37113)			TRUCK, BUS, AND OTHER VEHICLE BODIES (EXCEPT PASSENGER CAR BODIES) (37131)--Continued		
United States.....	240.9	179.8	North Central Region.....	295.5	(NA)
Northeast Region.....	34.5	EE	East North Central Division.....	239.6	(NA)
Middle Atlantic Division.....	FF	EE	Ohio.....	71.0	(NA)
New York.....	EE	EE	Indiana.....	50.6	(NA)
Pennsylvania.....	EE	BB	Illinois.....	43.9	(NA)
North Central Region.....	190.1	143.3	Michigan.....	31.1	(NA)
East North Central Division.....	GG	GG	Wisconsin.....	43.0	(NA)
Ohio.....	FF	CC	West North Central Division.....	55.9	(NA)
Michigan.....	GG	GG	Minnesota.....	5.5	(NA)
Wisconsin.....	CC	CC	Iowa.....	EE	(NA)
West North Central Division.....	FF	FF	Missouri.....	28.1	(NA)
North Dakota.....	FF	FF	Nebraska.....	AA	(NA)
South Region.....	CC	CC	Kansas.....	AA	(NA)
South Atlantic Division.....	CC	CC	South Region.....	167.8	(NA)
Georgia.....	CC	CC	South Atlantic Division.....	75.1	(NA)
West Region.....	EE	EE	Delaware.....	AA	(NA)
Pacific Division.....	EE	EE	Maryland.....	3.3	(NA)
California.....	EE	EE	Virginia.....	17.1	(NA)
COMBAT VEHICLES, WHEEL OR TRACTED TACTICAL VEHICLES OR CARRIERS (EXCLUDING TANKS) (37114) <sup>1</sup>			West Virginia.....	AA	(NA)
United States.....	GG	(NA)	North Carolina.....	33.3	(NA)
Northeast Region.....	CC	(NA)	Georgia.....	11.4	(NA)
Middle Atlantic Division.....	CC	(NA)	Florida.....	6.7	(NA)
New York.....	CC	(NA)	East South Central Division.....	69.0	(NA)
North Central Region.....	GG	(NA)	Kentucky.....	CC	(NA)
East North Central Division.....	GG	(NA)	Tennessee.....	20.9	(NA)
Indiana.....	GG	(NA)	Alabama.....	24.4	(NA)
Michigan.....	EE	(NA)	Mississippi.....	EE	(NA)
Wisconsin.....	AA	(NA)	West South Central Division.....	23.7	(NA)
South Region.....	FF	(NA)	Arkansas.....	BB	(NA)
South Atlantic Division.....	FF	(NA)	Louisiana.....	BB	(NA)
North Carolina.....	FF	(NA)	Oklahoma.....	4.4	(NA)
West Region.....	AA	(NA)	Texas.....	13.7	(NA)
Pacific Division.....	AA	(NA)	West Region.....	55.3	(NA)
California.....	AA	(NA)	Mountain Division.....	7.6	(NA)
PASSENGER CAR BODIES (37115) <sup>1</sup>			Colorado.....	AA	(NA)
United States.....	GG	(NA)	Utah.....	CC	(NA)
North Central Region.....	GG	(NA)	Pacific Division.....	47.7	(NA)
East North Central Division.....	GG	(NA)	Washington.....	3.5	(NA)
Michigan.....	GG	(NA)	Oregon.....	7.6	(NA)
Wisconsin.....	GG	(NA)	California.....	36.6	(NA)
West Region.....	AA	(NA)	COMPLETE VEHICLES (EXCEPT PASSENGER CARS) PRODUCED ON PURCHASED CHASSIS (37132) <sup>2</sup>		
Mountain Division.....	AA	(NA)	United States.....	703.5	123.3
Colorado.....	AA	(NA)	Northeast Region.....	40.7	(NA)
TRUCK, BUS, AND OTHER VEHICLE BODIES (EXCEPT PASSENGER CAR BODIES) (37131) <sup>2</sup>			New England Division.....	BB	(NA)
United States.....	624.2	404.3	Massachusetts.....	BB	(NA)
Northeast Region.....	105.6	(NA)	Middle Atlantic Division.....	FF	(NA)
New England Division.....	18.2	(NA)	New York.....	22.6	(NA)
Massachusetts.....	11.9	(NA)	New Jersey.....	AA	(NA)
Rhode Island.....	CC	(NA)	Pennsylvania.....	EE	(NA)
Middle Atlantic Division.....	87.4	(NA)	North Central Region.....	428.1	(NA)
New York.....	26.5	(NA)	East North Central Division.....	GG	(NA)
New Jersey.....	12.0	(NA)	Ohio.....	48.7	(NA)
Pennsylvania.....	48.9	(NA)	Indiana.....	103.1	(NA)
			Illinois.....	AA	(NA)
			Michigan.....	FF	(NA)
			Wisconsin.....	EE	(NA)
			West North Central Division.....	GG	(NA)
			Minnesota.....	8.0	(NA)
			Iowa.....	GG	(NA)
			Missouri.....	BB	(NA)
			Kansas.....	BB	(NA)
			South Region.....	73.9	(NA)
			South Atlantic Division.....	7.9	(NA)
			Virginia.....	CC	(NA)
			Florida.....	1.1	(NA)
			East South Central Division.....	30.3	(NA)
			Tennessee.....	BB	(NA)
			Alabama.....	BB	(NA)
			Mississippi.....	FF	(NA)

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COMPLETE VEHICLES (EXCEPT PASSENGER CARS) PRODUCED ON PURCHASED CHASSIS (37132)--Continued			REBUILT ENGINES AND PARTS FOR MOTOR VEHICLES (EXCEPT CARBURETORS) (37143)		
South Region--Continued			United States.....	365.5	197.5
West South Central Division.....	35.7	(NA)	Northeast Region.....	35.6	25.9
Arkansas.....	EE	(NA)	New England Division.....	4.5	4.4
Oklahoma.....	CC	(NA)	Massachusetts.....	3.1	4.4
Texas.....	10.4	(NA)	Middle Atlantic Division.....	31.2	21.5
West Region.....	160.8	(NA)	New York.....	4.9	5.3
Mountain Division.....	10.2	(NA)	New Jersey.....	20.0	9.5
Idaho.....	BB	(NA)	Pennsylvania.....	6.3	6.8
Colorado.....	AA	(NA)	North Central Region.....	121.8	77.3
Utah.....	CC	(NA)	East North Central Division.....	87.5	55.8
Pacific Division.....	150.6	(NA)	Ohio.....	31.2	21.9
Washington.....	BB	(NA)	Indiana.....	17.1	10.1
Oregon.....	EE	(NA)	Illinois.....	20.2	8.6
California.....	126.7	(NA)	Michigan.....	EE	13.5
PARTS AND ACCESSORIES FOR MOTOR VEHICLES, EXCLUDING KITS AND REBUILT PARTS (37141)			Wisconsin.....	BB	1.6
United States.....	18,766.8	11,326.9	West North Central Division.....	34.3	21.4
Northeast Region.....	1,964.1	1,162.6	Minnesota.....	10.8	11.5
New England Division.....	163.0	92.9	Iowa.....	BB	( <sup>1</sup> )
Maine.....	BB	CC	Missouri.....	13.4	BB
New Hampshire.....	FF	CC	South Dakota.....	AA	AA
Massachusetts.....	47.3	31.7	Kansas.....	CC	BB
Rhode Island.....	EE	EE	South Region.....	168.5	67.2
Connecticut.....	71.3	36.5	South Atlantic Division.....	47.1	20.2
Middle Atlantic Division.....	1,801.1	1,069.6	Maryland.....	AA	( <sup>1</sup> )
New York.....	1,437.5	771.5	Virginia.....	CC	AA
New Jersey.....	43.3	58.2	North Carolina.....	15.4	6.4
Pennsylvania.....	320.3	239.9	South Carolina.....	CC	( <sup>1</sup> )
North Central Region.....	15,392.9	9,634.5	Georgia.....	12.8	10.3
East North Central Division.....	15,025.4	9,446.9	Florida.....	2.1	1.3
Ohio.....	2,739.5	2,181.1	East South Central Division.....	30.6	10.5
Indiana.....	2,077.1	1,328.6	Kentucky.....	12.1	BB
Illinois.....	434.7	252.8	Tennessee.....	16.2	4.1
Michigan.....	8,411.8	5,468.4	Mississippi.....	2.2	( <sup>1</sup> )
Wisconsin.....	362.3	216.0	West South Central Division.....	90.9	36.5
West North Central Division.....	367.5	187.5	Arkansas.....	EE	BB
Minnesota.....	36.9	EE	Louisiana.....	1.1	( <sup>1</sup> )
Iowa.....	50.3	25.6	Oklahoma.....	49.2	18.6
Missouri.....	198.0	116.6	Texas.....	FF	14.5
Nebraska.....	GG	FF	West Region.....	39.6	27.2
Kansas.....	FF	AA	Mountain Division.....	5.4	2.1
South Region.....	1,042.9	405.8	Colorado.....	AA	1.1
South Atlantic Division.....	416.6	181.0	Arizona.....	1.8	( <sup>1</sup> )
Delaware.....	CC	CC	Nevada.....	AA	( <sup>1</sup> )
Maryland.....	GG	GG	Pacific Division.....	34.2	25.1
Virginia.....	59.3	FF	Washington.....	CC	BB
West Virginia.....	FF	FF	Oregon.....	AA	AA
North Carolina.....	121.3	FF	California.....	FF	21.1
South Carolina.....	19.3	CC	TRUCK TRAILERS AND CHASSIS (10,000 POUNDS PER AXLE OR OVER) (37151) <sup>1</sup>		
Georgia.....	70.6	FF	United States.....	964.4	643.5
Florida.....	19.4	3.4	Northeast Region.....	269.6	(NA)
East South Central Division.....	533.2	198.8	Middle Atlantic Division.....	CC	(NA)
Kentucky.....	154.6	39.8	New Jersey.....	CC	(NA)
Tennessee.....	283.5	104.1	Pennsylvania.....	GG	(NA)
Alabama.....	66.4	29.9	North Central Region.....	260.3	(NA)
Mississippi.....	28.8	24.4	East North Central Division.....	153.9	(NA)
West South Central Division.....	93.0	26.0	Ohio.....	CC	(NA)
Arkansas.....	47.4	CC	Indiana.....	59.7	(NA)
Oklahoma.....	CC	BB	Illinois.....	58.8	(NA)
Texas.....	38.1	16.1	Michigan.....	BB	(NA)
West Region.....	366.9	124.1	Wisconsin.....	21.4	(NA)
Mountain Division.....	30.3	18.6	West North Central Division.....	106.4	(NA)
Colorado.....	EE	13.4	Minnesota.....	EE	(NA)
Utah.....	EE	BB	Iowa.....	FF	(NA)
Pacific Division.....	336.6	105.5	Missouri.....	24.6	(NA)
Washington.....	2.2	3.0	South Dakota.....	BB	(NA)
Oregon.....	55.4	4.5	Nebraska.....	EE	(NA)
California.....	279.0	98.0			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TRUCK TRAILERS AND CHASSIS (10,000 POUNDS PER AXLE OR OVER) (37151)--Continued			TRUCK TRAILERS AND CHASSIS LESS THAN 10,000 POUNDS PER AXLE (37152) <sup>1</sup>		
South Region.....	309.4	(NA)	United States.....	67.5	25.7
South Atlantic Division.....	85.5	(NA)			
Virginia.....	EE	(NA)	Northeast Region.....	CC	(NA)
West Virginia.....	BB	(NA)	Middle Atlantic Division.....	BB	(NA)
North Carolina.....	EE	(NA)	New Jersey.....	BB	(NA)
Georgia.....	FF	(NA)			
Florida.....	CC	(NA)	North Central Region.....	21.5	(NA)
East South Central Division.....	92.6		East North Central Division.....	18.4	(NA)
Kentucky.....	EE	(NA)	Indiana.....	EE	(NA)
Tennessee.....	FF	(NA)	Michigan.....	BB	(NA)
Alabama.....	46.7	(NA)	West North Central Division.....	3.1	(NA)
West South Central Division.....	131.3	(NA)			
Arkansas.....	AA	(NA)	South Region.....	28.0	(NA)
Louisiana.....	CC	(NA)	South Atlantic Division.....	7.3	(NA)
Oklahoma.....	EE	(NA)	Georgia.....	CC	(NA)
Texas.....	110.1	(NA)	East South Central Division.....	EE	(NA)
West Region.....	125.0		Alabama.....	EE	(NA)
Mountain Division.....	FF	(NA)	West South Central Division.....	CC	(NA)
Colorado.....	FF	(NA)	Texas.....	BB	(NA)
Utah.....	CC	(NA)			
Pacific Division.....	GG	(NA)	West Region.....	EE	(NA)
Washington.....	24.9	(NA)	Pacific Division.....	EE	(NA)
Oregon.....	EE	(NA)	California.....	CC	(NA)
California.....	54.5	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9	CC.....\$5.0 to \$9.9	FF.....\$20.0 to \$49.9
BB.....\$2.0 to \$4.9	EE.....\$10.0 to \$19.9	GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>Area data were not published in 1967 for product classes 37114, 37115, 37151, and 37152. Additional data for excluded States in other product classes were not shown separately in 1967.

<sup>2</sup>In 1972, product classes 37131 and 37132 are equivalent to 1967 product class 37130. Area data, for 1967, for product class 37130 are available in table 6B, of the 1967 publication.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3711	Motor vehicles and car bodies.....	41,045.9	38,205.9	26,810.9	33,162.9	32,088.0	25,921.6	(NA)	(NA)
37111	Passenger cars and chassis for sale separately.....	29,246.2	28,554.2	19,391.2	23,542.0	23,874.6	19,277.4	16,768.3	9,217.7
37112	Truck tractors, chassis, and trucks (own chassis).....	9,566.1	7,519.4	5,734.3	6,364.4	5,539.2	4,263.7	3,376.2	1,933.7
37113	Buses and fire department vehicles (on own chassis).....	240.9	230.2	163.9	173.8	181.7	179.8	182.5	99.2
37114	Combat vehicles and tactical vehicles (except tanks).....	1,965.7	1,883.4	1,504.8	3,064.4	2,472.6	2,160.1	( <sup>2</sup> )	( <sup>2</sup> )
37115	Passenger car bodies.....							( <sup>3</sup> )	( <sup>3</sup> )
37110	Motor vehicles, n.s.k.....	27.0	18.7	16.7	18.3	(19.9)	40.7	( <sup>2</sup> )	( <sup>2</sup> )
3713	Truck and bus bodies.....	1,444.0	887.0	782.9	755.7	693.6	595.4	419.7	274.9
37131	Truck, bus, and other vehicle bodies (except passenger car bodies).....	624.2	887.0	782.9	755.7	693.6	404.3	300.4	197.5
37132	Complete vehicles (except cars) on purchased chassis.....	703.5					123.3	91.7	59.0
37130	Truck and bus bodies, n.s.k.....	116.3					67.8	27.6	18.4
3714	Motor vehicle parts and accessories.....	19,417.0	16,297.4	13,188.6	14,783.8	14,131.4	11,735.2	13,386.1	8,612.7
37141	Motor vehicle parts and accessories, except rebuilt.....	18,766.8	15,904.5	12,764.4	14,368.3	13,751.6	11,326.9	<sup>3</sup> 412,975.8	8,467.5
37143	Rebuilt engines and parts (except carburetors).....	365.6	295.1	299.6	255.4	219.7	197.5	<sup>2</sup> 188.3	79.9
37140	Motor vehicle parts and accessories, n.s.k.....	284.6	97.8	(124.6)	160.1	160.1	210.7	<sup>2</sup> 222.0	<sup>2</sup> 65.3
3715	Truck trailers.....	1,079.0	774.3	764.6	949.3	757.4	702.2	484.7	284.0
37151	Truck trailers and chassis (10,000 lb per axle or more)....	964.4	774.3	764.6	949.3	757.4	643.5	461.4	270.6
37152	Truck trailers and chassis (less than 10,000 lb per axle)...	67.5					25.7	10.5	13.4
37150	Truck trailers, n.s.k.....	47.1					33.1	12.8	-

- Represents zero. (NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Prior to 1967, figures for product class 37114, Combat vehicles, and 37110, Motor vehicles, n.s.k., were included with product class 37140, Motor vehicle parts and accessories.

<sup>3</sup>Prior to 1967, figures for product class 37115, Passenger car bodies, were included with product class 37141, Parts and accessories for motor vehicles.

<sup>4</sup>Data for 1963 to 1966 have been revised to exclude automotive job stampings shipped by establishments operated by automotive companies.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3711.--MOTOR VEHICLES AND CAR BODIES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 30,792.5	(X)	19,505.1
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 tons...	145.3	31.8	145.5	23.7
331012	Sheet and strip.....	...do.....	1,311.8	259.8	1,164.4	198.0
331013	Plates.....	...do.....	31.6	6.1	27.3	5.0
331015	Structural shapes.....	...do.....			15.8	3.2
331017	Wire and wire products.....	...do.....	71.0	19.1	1.4	.5
331019	All other carbon steel mill shapes and forms.....	...do.....			17.1	4.7
	Alloy steel except stainless:					
331021	Bars and bar shapes.....	...do.....			106.4	26.0
331029	All other alloy mill shapes and forms.....	...do.....	139.9	43.4	20.1	4.7
	Stainless steel:					
331033	Sheet and strip.....	...do.....	1.0	1.5	1.1	.9
331050	All other stainless steel mill shapes and forms.....	...do.....	.1	.1		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	6.3	4.9	5.1	4.1
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction.....	Million lb....	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....				
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	12.4	8.0	2.3	1.5
335152	Pipe and tube.....	...do.....			7.2	5.9
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	24.5	12.0	25.3	11.3
335405	Extruded shapes, (including extruded rod, bar, pipe, tube, etc.)	...do.....			7.4	3.6
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	...do.....	24.2	14.0	1.5	.8
339915	Metal powders.....	...do.....	(D)	(D)	(D)	(D)
	Primary metals:					
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	(D)	(D)	(D)	(D)
333401	Aluminum and aluminum-base alloy refinery shapes.....	...do.....	(D)	(D)	(D)	(D)
	Scrap, excluding home scrap:					
999811	Iron and steel.....	...do.....	(D)	(D)	(D)	(D)
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	...do.....	(D)	(D)	504.9	139.3
332045	Steel.....	...do.....	14.1	10.4	24.5	16.6
336100	Aluminum and aluminum-base alloy.....	Million lb....	82.3	53.2	55.2	38.9
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)	(D)	(D)
	Forgings: <sup>2</sup>					
346200	Iron and steel.....	1,000 tons...	132.8	48.7	84.4	39.6
346310	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	-	-
362115	Fractional horsepower electric motors (under 1 hp.) <sup>2</sup> .....	1,000 units...	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	...do.....	(X)	48.4	(X)	13.0
356201	Roller.....	...do.....			(X)	25.0
229501	Coated, impregnated or laminated fabrics.....	Mil. lin. yd..	1.7	2.8	4.5	6.2
	Uncoated broad-woven fabrics (piece goods):					
221103	Cotton.....	...do.....	.3	.3	(NA)	.3
220119	Other broad-woven fabrics.....	...do.....	(D)	(D)	(D)	(D)
307911	Unsupported plastic film and sheeting, excluding packaging materials.....	Mil. sq. yd....	(D)	(D)	(NA)	.4
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis)...	(D)	(D)	(D)	(D)
282140	Thermosetting resins.....	...do.....	(D)	(D)	(D)	(D)
301101	Pneumatic and solid tires and inner tubes.....	Million tires.	(D)	(D)	(NA)	<sup>3</sup> 475.0
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	29,301.1	(X)	<sup>1</sup> 18,200.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....		(X)	35.6	(X)	256.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3713.--TRUCK AND BUS BODIES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 884.1	(X)	338.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	40.3	9.8	31.6	5.5
331012	Sheet and strip.....	do.	269.8	56.5	262.9	43.4
331013	Plates.....	do.	77.8	15.8	54.5	8.0
331015	Structural shapes.....	do.	47.2	9.6	34.0	5.5
331017	Wire and wire products.....	do.	.7	.3	3.5	.9
331019	All other carbon steel mill shapes and forms.....	do.	11.9	3.9	7.1	1.9
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	do.	6.8	1.9	.9	.3
331029	All other alloy mill shapes and forms.....	do.	12.8	7.1	11.6	2.6
	Stainless steel:					
331033	Sheet and strip.....	do.	1.8	2.2	2.6	2.6
331050	All other stainless steel mill shapes and forms.....	do.	.1	.2		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	4.2	2.4	.3	.3
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	.1	.1	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	do.	(D)	(D)	(NA)	1.7
335143	Plate, sheet, and strip, including military cups and discs...	do.				
335152	Pipe and tube.....	do.				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	do.	53.0	24.4	24.3	11.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	do.	23.1	10.2	8.3	4.3
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	do.	6.9	3.6	2.8	1.4
	Primary metals and scrap:					
333401	Aluminum and aluminum-base alloy refinery shapes.....	1,000 s. tons.	(D)	(D)	(D)	(D)
999811	Iron and steel scrap.....	do.	1.9	.2	(D)	(D)
999808	Aluminum and aluminum-base alloy scrap.....	do.	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	do.	5.3	1.8	6.1	2.6
332045	Steel.....	do.	7.7	4.2	6.3	2.7
336100	Aluminum and aluminum-base alloy.....	Million lb....	.7	.6	.4	.4
336200	Copper and copper-base alloy.....	do.	.2	.3	.2	.2
	Forgings: <sup>2</sup>					
346200	Iron and steel.....	1,000 s. tons.	.7	.3	.5	.3
346310	Aluminum and aluminum-base alloy.....	Million lb....	.5	.1	(D)	(D)
362115	Fractional horsepower electric motors (under 1 hp.), excluding timing motors <sup>2</sup> .....	1,000 units...	44.3	.5	81.6	.4
	Bearings:					
356218	Ball.....	do.	(X)	.1	(X)	.2
356201	Roller.....	do.	(X)	.2	(X)	.1
229501	Coated, impregnated, or laminated fabrics.....	Mil. lin. yd..	3.4	6.2	2.6	.9
	Uncoated broad-woven fabrics (piece goods):					
221103	Cotton.....	do.	(D)	(D)	(NA)	.1
220119	Other broadwoven fabrics.....	do.	.9	2.2	(NA)	.1
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis)...	.5	.3	.9	.3
282140	Thermosetting resins.....	do.	2.6	.8	1.1	.4
301101	Pneumatic and solid tires and inner tubes.....	Million tires.	.4	6.2	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	613.3	(X)	<sup>1</sup> 186.3
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....		(X)	93.2	(X)	51.9

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3714.--MOTOR VEHICLE PARTS AND ACCESSORIES					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 8,922.0	(X)	5,727.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 tons....	1,262.9	292.8	751.5	135.1
331012	Sheet and strip.....	...do.....	5,957.1	1,142.6	5,061.3	774.1
331013	Plates.....	...do.....	334.2	69.8	288.6	44.2
331015	Structural shapes.....	...do.....	46.4	10.7	21.7	3.4
331017	Wire and wire products.....	...do.....	194.6	71.1	226.7	52.8
331019	All other carbon steel mill shapes and forms.....	...do.....	609.6	137.1	<sup>5</sup> 144.1	<sup>5</sup> 45.8
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	320.2	83.0	325.5	66.0
331029	All other alloy mill shapes and forms.....	...do.....	175.5	64.7	52.9	27.4
	Stainless steel:					
331033	Sheet and strip.....	...do.....	28.0	23.4	} 26.0	24.2
331050	All other stainless steel mill shapes and forms.....	...do.....	4.5	5.8		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	54.5	45.0	27.2	16.0
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction.....	Million lb....	9.7	7.8	80.1	37.7
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	143.8	77.6	59.0	26.5
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	135.3	102.6	156.7	83.6
335152	Pipe and tube.....	...do.....	129.7	49.1	(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	30.9	14.7	47.8	22.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	...do.....	9.9	5.9	21.2	12.1
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	...do.....	22.9	8.1	5.0	3.0
339915	Metal powders.....	...do.....	57.3	14.0	52.4	15.3
	Primary metals:					
331051	Pig iron (excluding silvery iron).....	1,000 s. tons.	60.0	4.5	76.1	4.6
333401	Aluminum and aluminum-base alloy refinery shapes.....	...do.....	38.3	15.9	37.0	16.6
	Scrap, excluding home scrap:					
999811	Iron and steel.....	...do.....	403.0	16.2	324.5	9.9
999808	Aluminum and aluminum-base alloy.....	...do.....	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	...do.....	3,869.5	1,425.0	2,593.1	758.5
332045	Steel.....	...do.....	88.7	46.9	135.8	108.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	563.8	310.6	373.1	186.3
336200	Copper and copper-base alloy.....	...do.....	3.6	3.6	16.1	11.4
	Forgings: <sup>2</sup>					
346200	Iron and steel.....	1,000 tons....	1,509.0	551.9	881.9	392.8
346310	Aluminum and aluminum-base alloy.....	Million lb....	6.3	5.2	47.7	15.5
362115	Fractional horsepower electric motors (under 1 hp.) <sup>2</sup> .....	1,000 units...	2,461.3	9.0	2,521.6	10.2
	Bearings:					
356218	Ball.....	...do.....	(X)	29.5	(X)	26.9
356201	Roller.....	...do.....	(X)	133.3	(X)	100.8
229501	Coated, impregnated, or laminated fabrics.....	Mil. lin. yd..	8.6	11.0	2.2	2.3
	Uncoated broad-woven fabrics (piece goods):					
221103	Cotton.....	...do.....	(D)	4.5	5.4	3.0
220119	Other broad-woven fabrics.....	...do.....	38.5	9.6	5.4	1.4
307911	Unsupported plastic film and sheeting, excluding packaging materials.....	Mil. sq. yd..	2.5	2.5	2.0	1.4
282130	Thermoplastic resins, including modified resins.....	Million lb. (dry basis)..	195.8	51.1	49.6	15.4
282140	Thermosetting resins.....	...do.....	12.2	4.0	21.8	8.2
301101	Pneumatic and solid tires and inner tubes.....	Million tires.	(NA)	9.7	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	...do.....	(X)	3,795.3	(X)	<sup>12</sup> 4,407.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>4</sup> .....	...do.....	(X)	251.3	(X)	256.7

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3715.--TRUCK TRAILERS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 641.3	(X)	427.6
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	25.5	5.5	13.5	2.3
331012	Sheet and strip.....	...do.....	131.4	24.9	126.3	21.4
331013	Plates.....	...do.....	62.1	13.5	46.7	7.9
331015	Structural shapes.....	...do.....	117.4	23.4	38.0	6.5
331017	Wire and wire products.....	...do.....	(NA)	.5	(NA)	.3
331019	All other carbon steel mill shapes and forms.....	...do.....	15.9	4.7	12.6	3.9
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	...do.....	4.2	1.4	8.4	2.1
331029	All other alloy steel mill shapes and forms.....	...do.....	23.4	8.3	23.8	5.4
	Stainless steel:					
331033	Sheet and strip.....	...do.....	7.0	7.2	16.1	12.6
331050	All other stainless steel mill shapes and forms.....	...do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.7	.9	1.0	.7
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	(NA)	1.4	(NA)	.6
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	111.0	45.0	72.7	31.1
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	94.2	36.7	68.2	26.0
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	...do.....	2.0	1.1	2.3	1.0
	Primary metals and scrap:					
999811	Iron and steel scrap.....	1,000 s. tons.	(D)	(D)	(D)	(D)
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	...do.....	6.4	3.7	1.9	1.5
332045	Steel.....	...do.....	9.3	7.7	10.2	4.4
336100	Aluminum and aluminum-base alloy.....	Million lb....	.3	.3	1.1	.9
	Forgings: <sup>2</sup>					
346200	Iron and steel.....	1,000 s. tons.	3.4	3.1	1.1	.4
346310	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	.4	.2
	Bearings:					
356218	Ball.....	.....	}	(X)	(X)	1.4
356201	Roller.....	.....				
	Uncoated broadwoven fabrics:					
221103	Cotton.....	1,000 lin.yd..	(D)	(D)	(NA)	(NA)
220119	Other broadwoven fabrics.....	...do.....	(D)	(D)	(NA)	(NA)
229501	Coated, impregnated or laminated fabrics.....	...do.....	(D)	(D)	(NA)	(NA)
282130	Thermoplastic resins, including modified resins.....	Million lb. dry basis....	(D)	(D)	(NA)	(NA)
282140	Thermosetting resins.....	...do.....	(D)	(D)	(NA)	(NA)
301101	Pneumatic and solid tires and inner tubes.....	Million tires.	.7	52.3	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	364.9	(X)	<sup>1</sup> 273.8
976000	Materials, parts, containers and supplies, n.s.k. <sup>4</sup> .....	.....	(X)	28.0	(X)	23.2

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>Excludes quantities produced and consumed in the same establishment.<sup>3</sup>Represents estimates published in MC67(1)-8 (Supplement), Selected Materials Consumed, from data collected in a supplemental survey on form MA-131, Consumption of Materials, Parts, Containers, and Supplies During 1967. This survey was limited to large establishments in selected chemical, machinery, and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.<sup>4</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>5</sup>These figures are understated by \$15 to \$25 million because of apparent undercoverage of carbon steel pipe and tube.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
	INDUSTRY 3711.--MOTOR VEHICLES AND CAR BODIES					
	Purchased fuels and electric energy.....		(X)	133.3	(X)	(NA)
	Purchased fuels, total.....		(X)	57.2	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1,060.2	14.0	(NA)	(NA)
331212	Coke.....	...do.....	(S)	.5	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	1,552.1	6.7	(NA)	(NA)
291141	Distillate.....	...do.....	790.3	3.7	(NA)	(NA)
291151	Residual.....	...do.....	761.8	3.0	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	44.9	26.7	(NA)	(NA)
960011	Other fuels.....		(X)	9.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	6,676.5	76.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	33.0	-	(NA)	(NA)
	INDUSTRY 3713.--TRUCK AND BUS BODIES					
	Purchased fuels and electric energy.....		(X)	8.3	(X)	(NA)
	Purchased fuels, total.....		(X)	3.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	.5	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	224.9	.9	(NA)	(NA)
291141	Distillate.....	...do.....	63.9	.3	(NA)	(NA)
291151	Residual.....	...do.....	161.0	.6	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	4.0	1.8	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	295.9	4.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.6	-	(NA)	(NA)
	INDUSTRY 3714.--MOTOR VEHICLE PARTS AND ACCESSORIES					
	Purchased fuels and electric energy.....		(X)	159.1	(X)	109.8
	Purchased fuels, total.....		(X)	56.5	(X)	40.6
121005	Coal.....	1,000 s. tons....	1,104.4	14.9	1,285.2	10.3
331212	Coke.....	...do.....	(S)	2.7	57.4	2.1
	Fuel oil, total.....	1,000 bbl (42 gal)	1,338.8	5.7	877.9	2.9
291141	Distillate.....	...do.....	820.4	3.6	237.4	.9
291151	Residual.....	...do.....	518.4	2.1	640.5	2.0
131300	Natural gas.....	Billion ft <sup>3</sup> .....	45.7	27.2	34.1	17.9
960011	Other fuels.....		(X)	3.0	(X)	3.8
975000	Fuels, n.s.k.....		(X)	2.9	(X)	3.6
960012	Purchased electric energy.....	Million kWh.....	8,805.9	102.6	6,733.6	69.2
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(D)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	36.6	-	31.7	-
	INDUSTRY 3715.--TRUCK TRAILERS					
	Purchased fuels and electric energy.....		(X)	4.3	(X)	(NA)
	Purchased fuels, total.....		(X)	1.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	17.1	.2	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	21.8	.1	(NA)	(NA)
291141	Distillate.....	...do.....	10.6	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	11.2	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.4	.8	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	239.3	2.9	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available.  
(S) Withheld because the estimates did not meet publication standards.

(D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown.





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# Aerospace Equipment, Including Parts

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# EXPLANATORY TEXT

## AEROSPACE EQUIPMENT, INCLUDING PARTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3721—Aircraft
- 3724—Aircraft Engines and Engine Parts
- 3728—Aircraft Parts and Auxiliary Equipment, N.E.C.\*
- 3761—Guided Missiles and Space Vehicles
- 3764—Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts\*
- 3769—Guided Missile and Space Vehicle Parts and Auxiliary Equipment, N.E.C.\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3721.—AIRCRAFT

The Aircraft Industry includes establishments primarily engaged in manufacturing or assembling complete aircraft. This industry also includes establishments primarily engaged in research and development on aircraft or in factory-type aircraft modification on a contract or fee basis.

Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3724 and 3728, and those producing

guided missiles and space vehicles and parts are classified in SIC group 376.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Aircraft Industry in 1972 totaled \$8,779 million. This included value of work done on aircraft (primary products) valued at \$7,237 million, shipments of other products (secondary products) valued at \$1,162 million, and miscellaneous receipts (mainly sales of products bought and resold) of \$380 million.

Value of work done on aircraft (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 83 percent. Secondary products shipped by this industry in 1972 consisted mainly of aircraft parts and miscellaneous aircraft equipment (\$939 million).

Shipments of aircraft (primary products) from establishments classified in industry 3721 in 1972 represented 96 percent (coverage ratio) of these products valued at \$7,538 million shipped by all industries. In 1967, the coverage ratio was 97 percent. Other industries shipping aircraft consisted mainly of industry 3728, Aircraft Equipment, N.E.C. (\$160 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3721, these establishments accounted for less than 1 percent of value of shipments.

## INDUSTRY 3724.—AIRCRAFT ENGINES AND ENGINE PARTS

The Aircraft Engines and Engine Parts Industry includes establishments primarily engaged in manufacturing aircraft engines and engine parts. Research and development on aircraft engines is included in this industry.

\*Note that the "short title" for this industry is used throughout the report.



Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Aircraft Engines and Engine Parts Industry is included for the first time in the census of manufactures for 1972. The statistics for this industry as classified under the 1967 classification system were split, as a result of the 1972 edition of the SIC manual into industry 3724, Aircraft Engines and Engine Parts; and industry 3764, Space Propulsion Units and Parts. The effect of these revisions can be seen in table 1C. For detailed data on products of industry 3724, Aircraft Engines and Engine Parts, refer to table 6A.

Value of shipments and other receipts of the Aircraft Engines and Engine Parts Industry in 1972 totaled \$3,640 million. This included shipments of aircraft engines and engine parts (primary products) valued at \$2,891 million, shipments of other products (secondary products) valued at \$417 million, and miscellaneous receipts (mainly sales of products bought and resold) of \$332 million.

Shipments of aircraft engines and engine parts (primary products) in 1972 represented 87 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of aircraft engines and engine parts (primary products) from establishments classified in industry 3724 in 1972 represented 94 percent (coverage ratio) of these products valued at \$3,070 million shipped by all industries. Other industries shipping aircraft engines and engine parts consisted mainly of industry 3728, Aircraft Equipment, N.E.C. (\$80 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3724, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3728.—AIRCRAFT EQUIPMENT, N.E.C. (Short Title)**

The Aircraft Equipment, N.E.C., Industry includes establishments primarily engaged in manufacturing aircraft parts

and auxiliary equipment, not elsewhere classified. Research and development on aircraft parts is included in this industry.

Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3724, aeronautical instruments in industry 3811, aeronautical electrical equipment in industry 3694, and guided missile and space vehicle parts and auxiliary equipment in industry 3769.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The classification system followed in the 1967 census was split, as a result of the 1972 edition of the SIC manual, into two separate industries: 3728, Aircraft Equipment, N.E.C., and 3769, Space Vehicle Equipment, N.E.C., from old SIC industry 3729, Aircraft Parts and Auxiliary Equipment, N.E.C. Old SIC 3723, Aircraft Propellers and Propeller Parts, is also now classified in this industry. The effect of these revisions are summarized in table 1C. For detailed data on products of industry 3728, Aircraft Equipment, N.E.C., see table 6A.

Value of shipments and other receipts of the Aircraft Equipment, N.E.C., Industry in 1972 totaled \$3,032 million. This included shipments of aircraft parts and auxiliary equipment, not elsewhere classified (primary products), valued at \$2,257 million, shipments of other products (secondary products) valued at \$664 million, and miscellaneous receipts (mainly receipts for repair work) of \$111 million.

Shipments of aircraft parts and auxiliary equipment (primary products) in 1972 represented 77 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 included aircraft (\$160 million), aircraft engines and engine parts (\$80 million), and space vehicle equipment (\$82 million).

Shipments of aircraft parts and auxiliary equipment (primary products) from establishments classified in industry 3728 in 1972 represented 66 percent (coverage ratio) of these products valued at \$3,437 million shipped by all industries. Other industries shipping aircraft parts and auxiliary equipment consisted mainly of industry 3721, Aircraft (\$939 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3728, these establishments accounted for 3 percent of value of shipments.



**INDUSTRY 3761.—GUIDED MISSILES AND SPACE VEHICLES**

The Guided Missiles and Space Vehicles Industry includes establishments primarily engaged in manufacturing complete guided missiles and space vehicles. Research and development and other services on or for guided missiles and space vehicles are included in this industry.

Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764; space satellite, guided missile and space vehicle airborne and ground guidance, checkout and launch electronic systems and components in industry 3662; and guided missile and space vehicle airframes, nose cones, and space capsules in industry 3769.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were changed to code number 3761 from code number 1925 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Guided Missiles and Space Vehicles Industry in 1972 totaled \$4,124 million. This included value of work done on guided missiles and space vehicles (primary products) valued at \$3,505 million, shipments of other products (secondary products) valued at \$417 million, and miscellaneous receipts (mainly sales of products bought and resold) of \$201 million.

Shipments of guided missiles and space vehicles (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 89 percent. Secondary products shipped by this industry in 1972 included radio and TV communication equipment (\$109 million), and space vehicle equipment (\$36 million).

Shipments of guided missiles and space vehicles (primary products) from establishments classified in industry 3761 in 1972 represented 95 percent (coverage ratio) of these products valued at \$3,705 million shipped by all industries. In 1967, the coverage ratio was 86 percent. Other industries shipping guided missiles and space vehicles included industry 3721, Aircraft (\$84 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other

Government agencies and the remaining statistics constructed from industry averages. For industry 3761, these establishments accounted for less than 1 percent of value of shipments.

**INDUSTRY 3764.—SPACE PROPULSION UNITS AND PARTS (Short Title)**

The Space Propulsion Units and Parts Industry includes establishments primarily engaged in manufacturing guided missile propulsion units and propulsion unit parts. This industry also includes establishments primarily engaged in research and development on guided missile and space vehicle propulsion units and propulsion unit parts.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Space Propulsion Units and Parts Industry is included for the first time in the census of manufactures for 1972. It was part of industry 3722 in 1967. See table 1C for a summary of the effects of this revision. For detailed data on products of industry 3764, Space Propulsion Units and Parts, refer to table 6A.

Value of shipments and other receipts of the Space Propulsion Units and Parts Industry in 1972 totaled \$716 million. This included shipments of space propulsion units and parts (primary products) valued at \$646 million, shipments of other products (secondary products) valued at \$64 million, and miscellaneous receipts of \$7 million.

Shipments of space propulsion units and parts (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of space propulsion units and parts (primary products) from establishments classified in industry 3764 in 1972 represented 87 percent (coverage ratio) of these products valued at \$741 million shipped by all industries. Other industries shipping space propulsion units and parts included industry 3724, Aircraft Engines and Engine Parts (\$27 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3764, these establishments accounted for less than 1 percent of value of shipments.

**INDUSTRY 3769.—SPACE VEHICLE EQUIPMENT, N.E.C.**  
**(Short Title)**

The Space Vehicle Equipment, N.E.C., Industry includes establishments primarily engaged in manufacturing guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified. Research and development on guided missile and space vehicle parts and equipment, not elsewhere classified, is also included in this industry.

Establishments primarily engaged in manufacturing navigational and guidance systems are classified in industry 3662.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

This industry is shown as a separate industry for the first time in the census of manufactures for 1972. It is composed of 1967 product classes 37292 and 37294. See table 1C for a summary of the effects of this revision. For detailed data on products of industry 3769, Space Vehicle Equipment, N.E.C., see table 6A.

Value of shipments and other receipts of the Space Vehicle Equipment, N.E.C., Industry in 1972 totaled \$788 million. This included shipments of space vehicle equipment, not else-

where classified (primary products) valued at \$562 million, shipments of other products (secondary products) valued at \$154 million, and miscellaneous receipts (mainly receipts for research and development not attributable to aircraft, missile, or space vehicle engines, parts, or systems) of \$72 million.

Shipments of space vehicle equipment, not elsewhere classified (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of space vehicle equipment, not elsewhere classified (primary products) from establishments classified in industry 3769 in 1972 represented 68 percent (coverage ratio) of these products valued at \$825 million shipped by all industries. Other industries shipping space vehicle equipment consisted mainly of industry 3728, Aircraft Equipment, N.E.C. (\$82 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3769, these establishments accounted for less than 1 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3721.--AIRCRAFT <sup>2</sup>															
1972 Census.....	168	86	231.8	2,867.1	131.0	259.1	1,332.3	5,083.0	4,028.7	8,779.3	57.1	(NA)	6,375.3	86	98
1971 ASM .....	(NA)	(NA)	237.8	2,738.5	128.1	252.4	1,225.9	5,055.0	4,373.5	10,021.0	59.2	2,457.7	6,003.8	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	320.2	3,465.0	170.0	334.3	1,591.2	5,810.8	5,229.3	11,462.3	181.4	2,586.3	6,958.7	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	395.8	4,066.7	223.0	438.4	1,851.4	6,686.8	5,759.0	12,445.7	339.8	2,442.0	7,435.9	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	417.9	3,907.1	245.7	502.0	1,925.8	6,553.6	6,460.8	13,014.4	281.9	2,179.8	6,250.7	(NA)	(NA)
1967 Census.....	125	83	386.8	3,569.0	230.6	489.9	1,806.7	5,447.6	5,632.2	11,079.8	408.2	1,918.6	5,253.3	83	97
1966 ASM .....	(NA)	(NA)	357.2	3,221.8	209.3	435.0	1,527.9	4,674.6	4,326.1	9,000.1	378.4	(NA)	3,264.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	295.1	2,508.4	172.3	351.0	1,169.3	3,730.8	3,420.4	7,150.9	140.5	(NA)	2,300.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	283.5	2,328.7	159.6	327.7	1,220.5	3,416.9	3,121.6	6,584.3	102.9	1,058.3	2,333.3	(NA)	(NA)
1963 Census.....	100	65	302.2	2,369.4	166.7	342.1	1,097.1	3,542.7	2,773.8	6,316.5	114.7	966.1	2,437.7	69	96
1962 ASM .....	(NA)	(NA)	326.1	2,468.7	180.4	378.2	1,131.4	3,363.5	2,842.3	6,205.6	119.7	883.3	2,147.0	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	305.4	2,205.5	172.9	351.7	1,023.5	3,046.9	2,953.3	6,000.1	71.8	(NA)	1,950.6	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	302.4	2,084.9	177.6	366.4	1,043.9	3,044.7	2,874.2	5,920.2	62.8	(NA)	2,007.7	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	369.3	2,419.6	225.6	461.8	1,248.2	3,305.0	3,503.7	6,808.7	89.7	(NA)	2,425.6	(NA)	(NA)
1958 Census .....	127	82	377.4	2,340.3	251.2	508.2	1,334.7	3,399.2	3,038.9	6,438.1	94.2	(NA)	2,476.9	81	93
INDUSTRY 3724.--AIRCRAFT ENGINES AND ENGINE PARTS (1972 SIC BASIS) <sup>3</sup>															
1972 Census.....	232	156	104.7	1,256.6	60.4	125.0	603.4	1,991.7	1,742.1	3,640.2	73.0	(NA)	868.2	87	94
INDUSTRY 3728.--AIRCRAFT EQUIPMENT, N.E.C. (1972 SIC BASIS) <sup>4</sup>															
1972 Census.....	694	313	102.2	1,158.1	68.1	139.5	677.9	2,048.9	1,064.0	3,031.9	38.9	(NA)	1,177.2	77	66
INDUSTRY 3761.--GUIDED MISSILES AND SPACE VEHICLES <sup>2</sup>															
1972 Census.....	70	57	118.3	1,751.8	47.6	91.5	575.6	2,948.7	1,166.2	4,123.6	62.8	(NA)	462.8	89	95
1971 ASM .....	(NA)	(NA)	131.9	1,765.7	51.0	95.5	564.8	2,869.8	1,080.5	3,989.8	56.1	1,028.3	477.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	142.8	1,824.1	50.1	96.2	535.6	2,853.4	1,023.3	3,970.3	62.1	969.2	397.2	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	177.8	2,121.9	58.4	115.1	604.1	3,480.5	1,151.7	4,632.2	88.8	918.1	489.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	205.9	2,256.4	71.9	146.6	672.7	3,497.8	1,359.9	4,857.8	117.1	999.5	573.0	(NA)	(NA)
1967 Census.....	65	59	201.4	2,098.7	70.2	142.9	587.0	3,338.8	1,301.7	4,640.5	111.4	860.9	485.4	89	86
1966 ASM .....	(NA)	(NA)	169.4	1,703.8	63.6	129.4	514.4	2,711.1	1,119.2	4,850.4	99.9	(NA)	394.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	145.4	1,476.8	54.0	111.8	423.0	2,173.9	1,038.8	3,314.7	44.6	(NA)	257.7	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	157.0	1,425.6	51.2	103.1	382.2	2,204.8	977.0	3,183.7	69.4	410.0	192.9	(NA)	(NA)
1963 Census.....	32	30	151.6	1,351.2	56.9	115.6	418.4	1,960.9	1,168.6	3,129.5	48.8	350.3	160.4	94	69
1962 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	297.4	(NA)	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census .....	26	26	108.4	788.4	60.9	129.2	370.7	1,153.0	1,053.7	2,206.7	46.1	(NA)	368.7	73	83
INDUSTRY 3764.--SPACE PROPULSION UNITS AND PARTS (1972 SIC BASIS) <sup>3</sup>															
1972 Census.....	29	28	20.8	276.2	8.1	17.3	87.6	506.6	220.7	716.3	18.4	(NA)	174.2	91	87
INDUSTRY 3769.--SPACE VEHICLE EQUIPMENT, N.E.C. (1972 SIC BASIS) <sup>4</sup>															
1972 Census.....	48	39	20.9	289.3	7.9	16.9	83.3	513.9	286.3	788.2	11.0	(NA)	91.2	79	68
INDUSTRY 3722.--AIRCRAFT ENGINES AND ENGINE PARTS (1972 SIC INDUSTRIES 3724 and 3764) <sup>3</sup>															
1972 Census.....	261	184	125.5	1,532.8	68.5	142.3	691.0	2,594.5	1,932.8	4,356.5	91.4	(NA)	1,042.4	(NA)	(NA)
1971 ASM .....	(NA)	(NA)	141.3	1,579.1	75.0	151.3	683.2	2,362.3	2,142.7	4,591.4	118.6	(NA)	1,035.7	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	165.2	1,683.3	89.9	182.6	769.1	2,672.9	2,322.5	5,175.8	130.5	(NA)	1,066.3	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	180.7	1,779.8	78.4	204.8	813.6	2,953.0	2,479.1	5,284.0	169.2	(NA)	1,252.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	191.9	1,784.9	107.9	227.0	852.4	2,975.6	2,522.9	5,389.6	198.8	(NA)	1,127.9	(NA)	(NA)
1967 Census.....	225	202	195.4	1,778.5	112.6	245.8	875.2	2,922.1	2,390.6	5,289.7	224.4	(NA)	1,056.7	88	92
1966 ASM .....	(NA)	(NA)	182.5	1,623.0	104.9	233.2	800.9	2,657.7	1,973.7	4,424.6	194.9	(NA)	1,049.0	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	172.3	1,446.4	94.6	201.1	669.6	2,323.9	1,696.5	3,931.1	105.4	(NA)	725.2	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	170.5	1,392.2	88.7	189.1	612.8	2,175.2	1,625.1	3,751.9	96.0	(NA)	636.1	(NA)	(NA)
1963 Census.....	231	171	188.1	1,460.7	103.5	216.8	682.5	2,208.2	1,837.3	4,024.9	111.5	(NA)	598.6	87	93
1962 ASM .....	(NA)	(NA)	178.6	1,331.1	103.0	216.0	646.0	1,984.0	1,686.6	3,660.5	78.5	(NA)	591.3	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	162.9	1,162.6	94.1	197.6	571.3	1,759.3	1,507.0	3,242.4	54.4	(NA)	580.8	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	165.8	1,144.8	94.6	197.3	556.6	1,633.0	1,473.2	3,094.9	46.7	(NA)	563.5	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	171.8	1,258.5	202.2	212.9	581.9	1,813.7	1,676.6	3,507.1	64.1	(NA)	524.4	(NA)	(NA)
1958 Census .....	223	175	159.1	999.2	94.5	194.9	509.7	1,615.7	1,719.1	3,512.1	55.9	(NA)	570.8	94	93

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3729.--AIRCRAFT PARTS AND AUXILIARY EQUIPMENT, N.E.C. (1972 SIC INDUSTRIES 3728 and 3769) <sup>4</sup>															
1972 Census.....	742	352	123.1	1,447.4	76.0	156.3	761.2	2,562.8	1,350.3	3,820.1	49.9	(NA)	1,268.4	(NA)	(NA)
1971 ASM.....	(NA)	(NA)	136.4	1,449.1	81.5	164.3	737.6	2,388.2	1,304.4	3,820.3	59.1	(NA)	1,140.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	162.8	1,631.0	101.1	212.3	888.5	2,601.8	1,367.8	3,888.4	101.1	(NA)	1,175.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	196.6	1,880.0	124.3	256.6	1,032.0	2,882.4	1,663.9	4,504.2	158.3	(NA)	1,220.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	199.8	1,778.6	133.7	279.1	1,064.2	2,794.2	1,653.6	4,317.4	143.8	(NA)	1,114.0	(NA)	(NA)
1967 Census.....	893	547	219.8	1,816.9	146.1	311.9	1,111.0	2,957.3	1,761.5	4,694.4	166.3	(NA)	966.7	78	64
1966 ASM.....	(NA)	(NA)	199.9	1,649.9	136.8	294.3	1,000.2	2,951.8	1,613.6	3,992.3	110.9	(NA)	909.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	168.9	1,383.5	107.6	228.6	769.8	2,138.5	1,190.7	3,233.6	65.6	(NA)	652.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	179.5	1,420.9	109.9	235.1	759.1	2,061.8	1,167.0	3,223.3	64.4	(NA)	571.8	(NA)	(NA)
1963 Census.....	1,014	478	186.4	1,398.2	117.6	246.3	783.2	2,080.3	1,237.3	3,359.4	67.9	(NA)	558.3	73	60
1962 ASM.....	(NA)	(NA)	210.5	1,534.3	118.2	247.1	752.8	2,119.1	1,786.5	3,857.2	93.3	(NA)	573.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	220.8	1,546.2	128.8	272.5	788.6	2,150.4	2,023.6	4,131.2	100.2	(NA)	579.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	210.5	1,386.5	137.0	289.7	798.7	1,901.4	1,493.2	3,345.2	69.7	(NA)	640.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	211.7	1,357.7	141.9	301.5	800.5	1,841.8	1,401.4	3,204.4	(S)	(NA)	646.4	(NA)	(NA)
1958 Census.....	1,219	518	229.0	1,380.5	153.7	316.1	831.4	1,909.5	1,261.6	3,266.4	56.1	(NA)	657.0	83	64

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3721	Industry 3724	Industry 3728	Industry 3761	Industry 3764	Industry 3769
1972.....	141	189	649	22	22	45
1967.....	91	(NA)	(NA)	25	(NA)	(NA)
1963.....	82	(NA)	(NA)	25	(NA)	(NA)

(NA) Not available. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Prior to 1970, establishments in this industry reported value of work done instead of value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for any inventory change between the beginning and end of the year.

<sup>3</sup>Industries 3724 and 3764 were newly defined in the 1972 edition of the SIC Manual. These two industries are equivalent to the 1967 industry 3722.

<sup>4</sup>Industries 3728 and 3769 were newly defined in the 1972 edition of the SIC Manual. These two industries are equivalent to 1967 industry 3729.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3721.--AIRCRAFT											
1972 Census.....	12,368	(NA)	57	1,979	5.14	.46	.79	(NA)	21,928	56	19.62
1971 ASM.....	11,516	10,330	54	1,970	4.86	.44	.71	.25	21,257	54	20.03
1970 ASM.....	10,821	8,080	53	1,966	4.76	.46	.76	.23	18,147	60	17.38
1969 ASM.....	10,275	6,170	56	1,966	4.22	.46	.79	.20	16,894	61	15.25
1968 ASM.....	9,349	5,220	59	2,043	3.84	.50	.80	.17	15,682	60	13.05
1967 Census.....	9,227	4,960	60	2,124	3.69	.51	.83	.17	14,084	66	11.12
1966 ASM.....	9,019	(NA)	59	2,079	3.51	.48	.84	(NA)	13,086	69	10.75
1965 ASM.....	8,061	(NA)	58	2,037	3.33	.48	.81	(NA)	12,643	64	10.63
1964 ASM.....	8,213	3,730	56	2,053	3.72	.47	.83	.16	12,051	68	10.43
1963 Census.....	7,841	3,200	55	2,052	3.21	.44	.81	.15	11,723	67	10.36
1962 ASM.....	7,569	2,710	55	2,097	2.99	.46	.86	.14	10,313	73	8.89
1961 ASM.....	7,221	(NA)	57	2,034	2.91	.49	.86	(NA)	9,976	72	8.66
1960 ASM.....	6,894	(NA)	59	2,063	2.85	.49	.84	(NA)	10,068	68	8.31
1959 ASM.....	6,553	(NA)	61	2,047	2.70	.51	.87	(NA)	8,951	73	7.16
1958 Census.....	6,201	(NA)	67	2,023	2.63	.47	.84	(NA)	9,007	69	6.69

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3724.--AIRCRAFT ENGINES AND ENGINE PARTS											
1972 Census.....	12,001	(NA)	58	2,070	4.83	.48	.82	(NA)	19,942	60	16.70
INDUSTRY 3728.--AIRCRAFT EQUIPMENT, N.E.C.											
1972 Census.....	11,332	(NA)	67	2,048	4.86	.35	.73	(NA)	20,048	56	14.69
INDUSTRY 3761.--GUIDED MISSILES AND SPACE VEHICLES											
1972 Census.....	14,808	(NA)	40	1,922	6.29	.28	.71	(NA)	24,806	60	32.07
1971 ASM.....	13,387	7,800	39	1,873	5.91	.27	.71	.26	21,757	62	30.05
1970 ASM.....	12,774	6,790	35	1,920	5.57	.26	.72	.24	19,982	64	29.66
1969 ASM.....	11,934	5,160	33	1,971	5.25	.25	.71	.20	19,575	61	30.24
1968 ASM.....	10,959	4,850	35	2,039	4.59	.28	.74	.21	16,988	65	23.86
1967 Census.....	10,421	4,270	35	2,036	4.11	.28	.73	.19	16,578	63	23.36
1966 ASM.....	8,654	(NA)	38	2,036	3.99	.29	.73	(NA)	15,292	57	19.85
1965 ASM.....	10,103	(NA)	38	2,053	3.83	.33	.79	(NA)	14,628	69	19.00
1964 ASM.....	8,995	2,610	33	2,016	3.73	.32	.77	.13	13,578	66	20.39
1963 Census.....	8,904	2,310	37	2,024	3.58	.37	.80	.11	12,926	69	17.44
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	7,271	(NA)	56	2,122	2.87	.48	.83	(NA)	10,634	68	8.92
INDUSTRY 3764.--SPACE PROPULSION UNITS AND PARTS											
1972 Census.....	13,279	(NA)	39	2,136	5.06	.31	.69	(NA)	24,356	55	29.28
INDUSTRY 3769.--SPACE VEHICLE EQUIPMENT, N.E.C.											
1972 Census.....	13,842	(NA)	38	2,127	4.96	.36	.73	(NA)	24,589	56	30.59

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3724.....	232	156	104.7	1,991.7	3,640.2	(X)	(X)	(X)	(X)	(X)
Old industry 3722.....	232	156	104.7	2,087.9	3,641.2	254	179	125.0	2,583.9	4,343.5
New industry 3764.....	29	28	20.8	506.6	716.3	(X)	(X)	(X)	(X)	(X)
Old industry 3722.....	29	28	20.8	506.6	716.3	254	179	125.0	2,583.9	4,343.5
New industry 3728.....	694	313	102.2	2,048.9	3,031.9	(X)	(X)	(X)	(X)	(X)
Old industry 3729.....	694	313	102.2	2,048.9	3,031.9	737	346	123.4	2,561.2	3,823.2
New industry 3769.....	48	39	20.9	513.9	788.2	(X)	(X)	(X)	(X)	(X)
Old industry 3729.....	48	39	20.9	513.9	788.2	737	346	123.4	2,561.2	3,823.2

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>2</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3721-- AIRCRAFT													
UNITED STATES. . . . .	168	86	231.8	2 867.1	131.0	259.1	1 332.3	5 083.0	4 028.7	8 779.3	57.1	386.8	5 447.6
NORTHEAST REGION. . . . .	22	14	34.8	454.4	17.0	35.6	185.2	587.3	533.5	1 014.5	(D)	59.6	1 075.5
NEW ENGLAND DIVISION. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CONNECTICUT. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MIDDLE ATLANTIC DIVISION. . . . .	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW YORK. . . . .	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
PENNSYLVANIA. . . . .	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NORTH CENTRAL REGION. . . . .	34	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	68.1	811.0
EAST NORTH CENTRAL DIVISION. . . . .	16	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO. . . . .	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST NORTH CENTRAL DIVISION. . . . .	18	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MINNESOTA. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KANSAS. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH REGION. . . . .	52	32	56.1	629.7	31.7	61.9	324.0	942.9	990.1	2 093.5	8.4	91.6	1 329.9
SOUTH ATLANTIC DIVISION. . . . .	27	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
SOUTH CAROLINA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
FLORIDA. . . . .	14	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	54.1
EAST SOUTH CENTRAL DIVISION. . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	21	11	33.7	399.1	18.4	34.8	205.5	695.7	535.0	1 347.1	5.1	FF	(D)
OKLAHOMA. . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
TEXAS. . . . .	17	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	50.2	804.0
WEST REGION. . . . .	60	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	167.6	2 231.2
MOUNTAIN DIVISION. . . . .	E1 6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARIZONA. . . . .	E2 5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	54	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON. . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
CALIFORNIA. . . . .	41	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	95.9	1 457.0
3724-- AIRCRAFT ENGINES AND ENGINE PARTS													
UNITED STATES. . . . .	232	156	104.7	1 256.6	60.4	125.0	603.4	1 991.7	1 742.1	3 640.2	73.0	(NA)	(NA)
NORTHEAST REGION. . . . .	85	60	56.6	657.5	33.5	68.8	327.5	970.3	935.3	1 823.0	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	57	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MAINE. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	42	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	28	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . .	E1 9	5	1.0	8.8	.7	1.3	5.2	17.1	7.4	23.7	(D)	(NA)	(NA)
NEW JERSEY. . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	67	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	63	49	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	21	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	15	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	5	4	1.4	15.7	.9	1.8	9.5	24.6	8.6	31.6	.7	(NA)	(NA)
MICHIGAN. . . . .	20	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDOWA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	39	25	9.9	107.5	5.0	10.5	41.3	148.4	173.7	320.7	13.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	23	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	18	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	E1 14	11	2.6	17.7	1.9	3.8	11.5	28.1	27.0	54.9	1.3	(NA)	(NA)
TEXAS. . . . .	E1 13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	41	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	E1 7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	33	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	31	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3728-- AIRCRAFT EQUIPMENT, NEC													
UNITED STATES . . . . .	694	313	102.2	1 158.1	68.1	139.5	677.9	2 048.9	1 064.0	3 031.9	38.9	(NA)	(NA)
NORTHEAST REGION . . . . .	144	64	16.4	193.3	9.8	19.5	90.9	321.6	137.4	461.6	(0)	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	44	20	FF	(D)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
MASSACHUSETTS . . . . .	8	4	AA	(0)	(D)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
CONNECTICUT . . . . .	34	15	FF	(0)	(0)	(0)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	100	44	FF	(D)	(D)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
NEW YORK . . . . .	61	27	FF	(D)	(0)	(0)	(0)	(0)	(0)	(D)	(0)	(NA)	(NA)
NEW JERSEY . . . . .	21	9	EE	(0)	(0)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
PENNSYLVANIA . . . . .	18	8	1.1	11.6	.7	1.4	6.4	17.8	9.1	27.4	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	141	72	25.9	289.5	15.8	32.0	154.9	475.8	280.8	732.2	(0)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	89	50	18.5	205.3	10.8	22.0	107.7	333.4	220.8	553.2	8.1	(NA)	(NA)
OHIO . . . . .	41	27	10.3	115.8	6.2	12.9	62.3	185.1	127.8	319.1	4.4	(NA)	(NA)
INDIANA . . . . .	11	5	FF	(D)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
ILLINOIS . . . . .	11	6	FF	(D)	(D)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
MICHIGAN . . . . .	24	11	1.8	19.3	1.1	2.2	10.4	25.6	26.1	52.7	.9	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	52	22	7.4	84.2	5.0	10.0	47.1	142.4	60.0	178.9	(D)	(NA)	(NA)
MISSOURI . . . . .	12	6	.4	3.1	.2	.5	2.2	6.1	2.8	8.4	.1	(NA)	(NA)
KANSAS . . . . .	33	13	FF	(D)	(0)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
SOUTH REGION . . . . .	82	46	13.0	134.3	9.1	18.1	79.8	229.7	108.1	354.0	3.6	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	35	22	FF	(0)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
DELAWARE . . . . .	1	1	AA	(D)	(0)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
MARYLAND . . . . .	4	4	FF	(0)	(D)	(D)	(0)	(D)	(D)	(D)	(0)	(NA)	(NA)
GEORGIA . . . . .	4	4	.2	2.2	.2	.4	1.7	-2.8	2.9	5.1	(0)	(NA)	(NA)
FLORIDA . . . . .	23	12	EE	(D)	(0)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	4	3	FF	(0)	(D)	(D)	(0)	(D)	(D)	(D)	(0)	(NA)	(NA)
TENNESSEE . . . . .	2	2	FF	(D)	(D)	(D)	(0)	(D)	(D)	(D)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	43	21	5.6	59.7	4.0	8.3	36.6	99.3	42.4	149.5	1.2	(NA)	(NA)
OKLAHOMA . . . . .	11	6	FF	(0)	(D)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
TEXAS . . . . .	30	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
WEST REGION . . . . .	327	131	46.9	541.0	33.4	69.9	352.4	1 021.7	537.7	1 484.1	20.1	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	33	14	6.2	79.9	4.8	10.5	61.5	151.8	99.8	242.9	1.4	(NA)	(NA)
COLORADO . . . . .	10	5	EE	(D)	(0)	(0)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
ARIZONA . . . . .	13	8	FF	(0)	(D)	(0)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
UTAH . . . . .	4	1	BB	(D)	(0)	(0)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
PACIFIC DIVISION . . . . .	294	117	40.7	461.1	28.6	59.4	290.9	870.0	437.9	1 241.2	18.6	(NA)	(NA)
WASHINGTON . . . . .	29	15	EE	(0)	(0)	(0)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
OREGON . . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
CALIFORNIA . . . . .	261	101	38.7	441.1	27.1	56.6	278.5	835.3	416.8	1 184.7	18.0	(NA)	(NA)
3761-- GUIDED MISSILES, SPACE VEHICLES													
UNITED STATES . . . . .	170	57	118.3	1 751.8	47.6	91.5	575.6	2 948.7	1 166.2	4 123.6	62.8	201.4	3 338.8
NORTHEAST REGION . . . . .	4	2	EE	(D)	(D)	(D)	(0)	(0)	(D)	(D)	(0)	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	2	2	EE	(D)	(0)	(D)	(D)	(0)	(0)	(D)	(0)	(NA)	(NA)
MASSACHUSETTS . . . . .	2	2	EE	(0)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	2	1	BB	(D)	(D)	(0)	(0)	(0)	(0)	(D)	(0)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	2	1	BB	(D)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
INDIANA . . . . .	1	1	BB	(0)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
SOUTH REGION . . . . .	26	23	FF	(0)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	17	14	14.3	200.7	4.2	8.3	43.8	312.3	73.8	380.6	10.5	(NA)	(NA)
VIRGINIA . . . . .	2	2	BB	(0)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
FLORIDA . . . . .	12	11	FF	(0)	(0)	(0)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	4	4	2.2	29.2	.3	.6	2.6	60.8	20.1	84.3	(0)	(NA)	(NA)
ALABAMA . . . . .	3	3	EE	(0)	(0)	(D)	(0)	(D)	(D)	(D)	(0)	(NA)	(NA)
MISSISSIPPI . . . . .	1	1	AA	(D)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	5	5	FF	(D)	(0)	(D)	(D)	(0)	(D)	(D)	(0)	(NA)	(NA)
LOUISIANA . . . . .	2	2	EE	(D)	(D)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
TEXAS . . . . .	3	3	EE	(D)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
WEST REGION . . . . .	38	31	95.2	1 435.0	40.7	78.0	506.3	2 397.6	1 045.8	3 462.3	49.0	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	7	5	FF	(0)	(0)	(0)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
COLORADO . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
ARIZONA . . . . .	2	2	FF	(D)	(0)	(D)	(0)	(D)	(0)	(D)	(0)	(NA)	(NA)
UTAH . . . . .	1	1	BB	(0)	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(NA)	(NA)
PACIFIC DIVISION . . . . .	31	26	FF	(D)	(D)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
WASHINGTON . . . . .	3	1	FF	(0)	(0)	(D)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)
CALIFORNIA . . . . .	28	25	FF	(D)	(0)	(0)	(D)	(D)	(0)	(D)	(0)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3764-- SPACE PROPULSION UNITS AND PARTS													
UNITED STATES . . . . .	29	28	20.8	276.2	8.1	17.3	87.6	506.6	220.7	716.3	18.4	(NA)	(NA)
NORTHEAST REGION. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	14	14	12.3	172.8	3.7	8.4	41.9	327.1	134.3	460.8	13.3	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH. . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	12	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3769-- SPACE VEHICLE EQUIPMENT, NEC													
UNITED STATES . . . . .	48	39	20.9	289.3	7.9	16.9	83.3	513.9	286.3	788.2	11.0	(NA)	(NA)
NORTHEAST REGION. . . . .	8	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI. . . . .	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	21	17	6.2	90.9	2.2	4.5	22.3	154.9	86.5	231.6	4.8	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	20	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	19	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0-100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over

(See appendix. Explanation of Terms)

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

(See appendix, Explanation of Terms)

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3724-- AIRCRAFT ENGINES AND ENGINE PARTS											
ESTABLISHMENTS, TOTAL. . . . .	232	104.7	1 256.6	60.4	125.0	603.4	1 991.7	1 742.1	3 640.2	73.0	868.2
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E9	29	(Z)	.5	(Z)	(Z)	.2	1.0	.8	1.8	(Z)	.4
5 TO 9 EMPLOYEES . . . . . E4	21	.2	1.6	.1	.2	.9	2.8	1.9	4.9	.1	.8
10 TO 19 EMPLOYEES . . . . . E3	26	.4	4.2	.3	1.6	2.5	6.8	4.8	11.3	.4	1.4
20 TO 49 EMPLOYEES . . . . .	41	1.3	13.4	1.0	2.0	8.5	21.4	15.9	37.6	8.3	5.7
50 TO 99 EMPLOYEES . . . . .	42	3.0	29.4	2.0	4.5	18.1	48.7	31.2	80.9	2.2	13.7
100 TO 249 EMPLOYEES . . . . . E1	29	4.7	46.6	3.5	7.0	32.5	80.8	47.5	125.3	3.2	28.8
250 TO 499 EMPLOYEES . . . . .	18	6.4	65.1	4.4	8.7	37.2	118.5	110.2	216.7	6.3	62.5
500 TO 999 EMPLOYEES . . . . .	10	7.4	77.7	5.4	11.1	50.8	126.0	85.0	205.5	6.5	53.9
1,000 TO 2,499 EMPLOYEES . . . . .	6	8.0	83.2	6.0	11.8	57.6	143.8	108.9	246.0	1.9	58.5
2,500 EMPLOYEES OR MORE. . . . .	10	73.4	934.8	37.6	78.0	395.1	1 441.9	1 335.9	2 710.1	44.3	642.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	21	(Z)	.4	(Z)	(Z)	.2	.8	.7	1.5	(Z)	.3
3728-- AIRCRAFT EQUIPMENT, NEC											
ESTABLISHMENTS, TOTAL. . . . .	694	102.2	1 158.1	68.1	139.5	677.9	2 048.9	1 064.0	3 031.9	38.9	1 177.2
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E9	216	.4	3.9	.3	.5	2.3	7.7	4.8	13.8	.5	4.5
5 TO 9 EMPLOYEES . . . . . E6	80	.5	5.0	.3	.7	3.0	9.0	4.1	13.0	.3	3.0
10 TO 19 EMPLOYEES . . . . . E2	85	1.2	11.0	.8	1.7	6.9	21.4	9.6	31.3	.5	4.6
20 TO 49 EMPLOYEES . . . . . E1	112	3.5	32.0	2.5	5.0	20.0	57.4	29.8	85.8	2.3	21.2
50 TO 99 EMPLOYEES . . . . . E1	73	5.2	47.5	3.6	7.9	29.0	77.8	44.1	119.8	2.9	27.7
100 TO 249 EMPLOYEES . . . . .	60	9.2	89.2	6.3	12.7	53.1	148.5	85.7	237.0	5.7	60.8
250 TO 499 EMPLOYEES . . . . .	34	12.3	128.1	8.2	17.0	75.2	235.4	125.3	354.1	4.0	121.2
500 TO 999 EMPLOYEES . . . . .	15	10.8	123.3	7.1	14.2	72.5	227.9	114.6	340.3	8.0	144.4
1,000 TO 2,499 EMPLOYEES . . . . .	10	15.7	185.4	9.9	19.2	101.4	318.7	146.1	461.6	4.2	124.1
2,500 EMPLOYEES OR MORE. . . . .	9	43.6	532.5	28.9	60.6	314.6	945.2	500.0	1 375.1	10.5	665.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	201	.5	5.2	.4	.7	2.9	10.8	5.8	16.6	.4	5.6
3761-- GUIDED MISSILES, SPACE VEHICLES											
ESTABLISHMENTS, TOTAL. . . . .	70	118.3	1 751.8	47.6	91.5	575.6	2 948.7	1 166.2	4 123.6	62.8	462.8
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E4	8	(Z)	1.2	(Z)	(Z)	.1	3.1	.4	3.5	.1	(Z)
5 TO 9 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
20 TO 49 EMPLOYEES . . . . .	5	.5	6.6	.1	.3	1.2	11.1	2.1	13.3	.3	.5
50 TO 99 EMPLOYEES . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
100 TO 249 EMPLOYEES . . . . .	6	1.0	13.5	.3	.8	3.4	23.1	3.9	26.1	2.5	2.3
250 TO 499 EMPLOYEES . . . . .	12	4.5	62.3	2.1	4.2	23.7	114.0	43.7	151.3	7.4	26.1
500 TO 999 EMPLOYEES . . . . .	10	8.1	116.7	2.2	4.1	24.6	171.6	21.4	191.9	1.1	9.2
1,000 TO 2,499 EMPLOYEES . . . . .	6	9.5	134.7	4.4	8.4	55.7	257.2	57.5	326.8	3.3	26.5
2,500 EMPLOYEES OR MORE. . . . .	14	94.7	1 416.8	38.4	73.6	466.9	2 368.6	1 037.1	3 410.7	48.2	398.0
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3764-- SPACE PROPULSION UNITS AND PARTS											
ESTABLISHMENTS, TOTAL. . . . .	29	20.8	276.2	8.1	17.3	87.6	506.6	220.7	716.3	18.4	174.2
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . .	1	.1	1.8	.1	.2	1.5	2.0	1.9	4.4	.4	.5
5 TO 9 EMPLOYEES . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	3	.2	2.2	.1	.3	1.4	4.7	3.7	7.1	(0)	2.1
20 TO 49 EMPLOYEES . . . . .	3	.4	4.2	.2	.5	2.1	2.3	3.8	6.3	(0)	1.0
50 TO 99 EMPLOYEES . . . . .	5	3.0	37.1	1.4	3.1	16.0	57.1	19.3	80.1	2.7	15.0
100 TO 249 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
250 TO 499 EMPLOYEES . . . . .	9	17.1	230.9	6.2	13.1	66.6	440.6	192.0	618.4	15.3	155.6
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3769-- SPACE VEHICLE EQUIPMENT, NEC											
ESTABLISHMENTS, TOTAL. . . . .	48	20.9	289.3	7.9	16.9	83.3	513.9	286.3	788.2	11.0	91.2
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . .	1	(Z)	.2	(Z)	(Z)	.2	.7	.3	.9	.2	.3
5 TO 9 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . . E3	5	.1	.5	(Z)	.1	.4	.3	.5	1.3	(0)	.5
20 TO 49 EMPLOYEES . . . . .	8	.6	5.6	.4	.9	3.6	12.1	9.1	21.5	.3	2.6
50 TO 99 EMPLOYEES . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
100 TO 249 EMPLOYEES . . . . .	12	1.7	20.9	1.0	2.1	9.9	30.4	19.9	49.4	.4	9.0
250 TO 499 EMPLOYEES . . . . .	5	2.2	20.4	1.8	3.7	13.8	34.7	20.1	59.0	.9	12.4
500 TO 999 EMPLOYEES . . . . .	3	1.9	26.4	.9	2.0	9.1	49.7	24.8	64.7	1.4	39.0
1,000 TO 2,499 EMPLOYEES . . . . .	4	14.5	215.2	3.7	8.0	46.4	386.6	211.7	591.5	7.9	27.4
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied by other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3721	AIRCRAFT										
	ENTIRE INDUSTRY . . . . .	168	231.8	2 867.1	131.0	259.1	1 332.3	5 083.0	4 028.7	8 779.3	57.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	141	172.3	2 108.6	98.6	191.1	979.5	3 941.8	3 103.5	6 801.2	36.9
37211	COMPLETE AIRCRAFT, MILITARY TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	18	133.2	1 714.5	73.3	141.8	786.0	2 672.6	2 178.9	4 547.4	27.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37212	COMPLETE AIRCRAFT, PERSONAL AND UTILITY TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	20	21.3	199.6	16.4	33.9	140.0	354.5	302.6	632.7	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	14	9.8	85.7	7.8	15.1	61.6	156.3	143.4	275.9	3.8
37213	COMPLETE AIRCRAFT, COMMERCIAL TRANSPORT TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37214	MODIFICATION, CONVERSION, OVERHAUL OF AIRCRAFT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	17	9.4	89.6	6.6	12.3	59.0	152.4	77.6	234.6	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	13	6.8	61.0	4.5	8.7	39.5	107.0	28.4	133.5	1.1
37216	OTHER AERONAUTICAL SERVICES ON AIRCRAFT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	12	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	9	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3724	AIRCRAFT ENGINES AND ENGINE PARTS										
	ENTIRE INDUSTRY . . . . .	232	104.7	1 256.6	60.4	125.0	603.4	1 991.7	1 742.1	3 640.2	73.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	179	81.0	953.2	45.7	95.6	444.0	1 494.5	1 449.6	2 862.4	56.0
37241	AIRCRAFT ENGINES FOR U.S. MILITARY CUSTOMERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	10	2.4	22.6	1.6	3.4	10.8	32.8	21.3	52.0	1.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	.3	2.8	.2	.4	1.8	5.2	5.5	11.1	.4
37242	AIRCRAFT ENGINES EXC. MILITARY CUSTOMERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37243	AERONAUTICAL SERVICES ON AIRCRAFT ENGINES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	14	13.2	164.3	5.8	12.0	55.9	229.4	236.9	444.0	8.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	11	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37244	AIRCRAFT ENGINE PARTS AND ACCESSORIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	139	74.5	877.6	46.0	95.2	467.5	1 338.8	1 161.3	2 427.7	47.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	104	14.9	153.9	11.2	24.2	106.0	251.9	158.8	403.3	14.7
3728	AIRCRAFT EQUIPMENT, NEC										
	ENTIRE INDUSTRY . . . . .	694	102.2	1 158.1	68.1	139.5	677.9	2 048.9	1 064.0	3 031.9	38.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	398	56.3	604.3	39.0	79.6	362.3	1 091.5	551.8	1 593.4	23.4
37281	AIRCRAFT PARTS AND ACCESSORIES, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	324	95.8	1 099.5	63.6	130.4	643.0	1 943.7	1 010.2	2 876.2	34.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	249	49.9	545.1	34.4	70.6	324.6	986.3	498.4	1 436.1	19.4
37283	RESEARCH AND DEVELOPMENT ON AIRCRAFT PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	6	.4	4.2	.1	.3	1.4	7.3	3.0	9.3	.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37285	AIRCRAFT PROPELLERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	1.1	10.3	.9	1.8	7.6	17.3	10.5	28.1	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3761	GUIDED MISSILES AND SPACE VEHICLES										
	ENTIRE INDUSTRY . . . . .	70	118.4	1 751.5	47.6	91.5	575.9	2 948.7	1 166.3	4 123.7	62.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	53	99.8	1 465.8	41.7	80.4	512.6	2 509.2	1 039.7	3 557.9	52.0
37611	MISSILE SYSTEMS, EXCLUDING PROPULSION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	13	49.7	724.6	15.7	30.1	173.0	1 282.2	739.3	2 017.6	27.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	7	12.7	167.4	4.9	9.1	52.2	293.0	111.9	409.0	9.5
37612	SPACE VEHICLE SYSTEMS, EXCLUDING PROPULSION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	5	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37613	RESEARCH AND DEVELOPMENT ON COMPLETE MISSILES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	6	22.7	348.4	9.0	16.0	108.4	522.4	80.3	602.5	15.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37614	RESEARCH, DEVELOPMENT ON COMPLETE SPACE VEHICLES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	8	15.4	240.0	8.9	19.2	119.1	530.9	182.1	714.2	6.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37615	OTHER SERV. ON COMPLETE MISSILES, SPACE VEHICLES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	22	13.7	186.0	5.4	11.0	66.1	305.1	90.8	418.6	10.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	7.4	97.8	1.8	3.6	19.3	140.3	29.6	166.0	7.7

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3764	SPACE PROPULSION UNITS AND PARTS										
	ENTIRE INDUSTRY . . . . .	29	20.8	276.2	8.1	17.3	87.6	506.6	220.7	716.3	18.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	25	19.6	261.4	7.1	15.4	74.7	484.4	213.2	687.9	18.1
37645	COMPL. MISSILE, SPACE VEHICLE ENGINE/PROPUL. UNIT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	10	12.4	169.9	4.4	9.4	47.5	319.6	144.8	460.6	12.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	5	6.1	79.2	2.4	5.2	25.6	159.2	85.5	241.9	10.4
37646	RESEARCH, DEVEL. ON MISSILES, SPACE VEHICLE ENGS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37647	OTHER SERV. ON COMPL. MISSILE, SPACE VEHICLE ENGS. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37648	MISSILE, SPACE VEHICLE ENGINE/PROPUL. UNIT PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	11	2.2	28.2	1.0	2.3	10.9	39.6	23.3	67.8	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3769	SPACE VEHICLE EQUIPMENT, NEC										
	ENTIRE INDUSTRY . . . . .	48	20.9	289.3	7.9	16.9	83.3	513.9	286.3	788.2	11.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	31	12.3	167.5	5.4	11.6	57.1	287.4	162.4	451.8	5.9
37692	MISSILE, SPACE VEHICLE PARTS, ETC., NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	36	11.4	148.3	4.7	9.9	43.5	273.7	154.8	418.8	6.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	20	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37694	RESEARCH, DEVEL. ON MISSILE, VEHICLE PARTS, NEC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	12	9.5	141.0	3.2	7.0	39.8	240.2	131.6	369.3	4.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	11	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

(0) Withheld to avoid disclosing figures for individual companies.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3721	Aircraft.....1972..	8,779.3	7,236.6	1,162.4	380.3	86	7,538.2	7,236.6	301.6	96
	.....1967..	11,079.8	8,928.9	1,871.2	279.7	83	9,172.2	8,928.9	243.3	97
3724	Aircraft engines and engine parts.....1972..	3,640.2	2,891.1	417.4	331.7	87	3,069.7	2,891.1	178.6	94
3728	Aircraft equipment, n.e.c.....1972..	3,031.9	2,256.6	664.5	110.8	77	3,436.9	2,256.6	1,180.3	66
3761	Guided missiles and space vehicles.....1972..	4,123.6	3,505.1	417.1	201.4	89	3,705.3	3,505.1	200.2	95
	.....1967..	4,640.5	3,749.6	465.3	425.6	89	4,367.3	3,749.6	617.7	86
3764	Space propulsion units and parts.....1972..	716.3	645.7	63.6	7.0	91	740.6	645.7	94.9	87
3769	Space vehicle equipment, n.e.c.....1972..	788.2	562.5	153.6	72.1	79	825.4	562.5	262.9	68

<sup>1</sup>Figures represent value of work done rather than value of shipments.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Aircraft (SIC 3721)	Aircraft engines and engine parts (SIC 3724)	Aircraft equipment, n.e.c. (SIC 3728)	Guided missiles and space vehicles (SIC 3761)	Space propulsion units and parts (SIC 3764)	Space vehicle equipment, n.e.c. (SIC 3769)	Other industries
	Total value of receipts of the industry.....	(X)	8,779.3	3,640.2	3,031.9	4,123.6	716.3	788.2	(X)
3721-	Aircraft.....	7,538.2	7,236.6	(5-10)	160.2	(100-200)	(over 2)	(under 2)	(10-20)
37211	Complete aircraft, military type.....	2,802.9	2,731.7	(under 2)	(20-50)	(20-50)	(under 2)	(under 2)	
37212	Complete aircraft, personal and utility type.....	474.2	474.2	-	-	-	-	-	-
37213	Complete aircraft, commercial transport type.....	2,787.3	2,787.2	-	-	-	-	-	.1
37214	Modifications, conversions and overhaul of previously accepted aircraft.....	373.9	305.9	(over 2)	61.1	-	-	-	(under 2)
37216	Other aeronautical services on aircraft.....	1,067.1	904.6	-	(50-100)	(50-100)	(over 2)	-	(over 2)
37210	Aircraft, n.s.k.....	32.8	32.8	-	-	-	-	-	-
3724-	Aircraft engines and engine parts.....	3,069.7	16.5	2,891.1	80.4	-	3.2	-	78.5
37241	Aircraft engines for U.S. military customers.....	437.1	-	435.8	(under 2)	-	-	-	(under 2)
37242	Aircraft engines for other than U.S. military customers.	609.2	(5-10)	594.4	(10-20)	-	-	-	(over 2)
37243	Aeronautical services on air- craft engines.....	692.1	(5-10)	676.5	-	-	(under 2)	-	(10-20)
37244	Aircraft engine parts and accessories.....	1,306.7	-	1,161.1	65.0	-	(under 2)	-	(50-100)
37240	Aircraft engines and engine parts, n.s.k. <sup>1</sup> .....	24.6	-	23.5	-	-	-	-	1.1
3728-	Aircraft equipment, n.e.c.....	3,436.9	938.7	14.5	2,256.6	(over 2)	(over 2)	15.4	151.6
37281	Aircraft parts and acces- sories, n.e.c.....	3,169.1	934.7	5.1	2,005.7	(over 2)	(over 2)	14.9	148.8
37283	Research and development on aircraft parts.....	99.4	(over 2)	(over 2)	93.8	-	-	.5	.8
37285	Aircraft propellers.....	58.3	(over 2)	(over 2)	49.0	-	-	-	-
37280	Aircraft equipment, n.e.c. n.s.k. <sup>2</sup> .....	110.1	-	-	108.1	-	-	-	2.0

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primarily to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Aircraft (SIC 3721)	Aircraft engines and engine parts (SIC 3724)	Aircraft equipment, n.e.c. (SIC 3728)	Guided missiles and space vehicles (SIC 3761)	Space propulsion units and parts (SIC 3764)	Space vehicle equipment, n.e.c. (SIC 3769)	Other industries
	Value of receipts of the industry--Continued								
3761-	Guided missiles and space vehicles.....	3,705.3	84.2	-	(over 2)	3,505.1	(under 2)	(over 2)	25.2
37611	Missile systems, excluding propulsion.....	1,246.3	(under 2)	-	(over 2)	1,205.7	-	(over 2)	10.8
37612	Space vehicle systems, excluding propulsion.....	754.9	(20-50)	-	-	707.0	-	(over 2)	-
37613	Research and development on complete missiles.....	660.8	(over 2)	-	-	572.9	-	(over 2)	(under 2)
37614	Research and development on complete space vehicles.....	599.7	(over 2)	-	-	591.5	-	-	(under 2)
37615	All other services on complete missiles and space vehicles..	440.1	(under 2)	-	-	424.5	(under 2)	(over 2)	12.3
37610	Guided missiles and space vehicles, n.s.k.....	3.5	-	-	-	3.5	-	-	-
3764-	Space propulsion units and parts	740.6	(5-10)	26.6	(10-20)	15.7	645.7	(20-50)	13.7
37645	Complete missile or space vehicle engines and/or propulsion units.....	434.6	(2-5)	(5-10)	-	(10-20)	405.2	-	.8
37646	Research and development on complete missile or space vehicle engines and/or propulsion.....	143.4	(2-5)	(10-20)	(under 2)	(2-5)	101.4	(20-50)	5.2
37647	All other services on complete missile or space vehicle engines and/or propulsion units.....	115.0	-	(under 2)	-	(under 2)	110.3	(under 2)	3.3
37648	Missile and space vehicle engines and/or propulsion unit parts and accessories...	47.1	-	(5-10)	(10-20)	(2-5)	28.3	-	3.8
37640	Space propulsion units and parts, n.s.k. <sup>1</sup> .....	.5	-	-	-	-	.5	-	-
3769-	Space vehicle equipment, n.e.c..	825.4	66.8	(over 2)	82.1	36.3	12.7	562.5	(over 2)
37692	Missile and space vehicle parts and subassemblies n.e.c.....	418.7	64.5	(over 2)	48.8	(20-50)	(over 2)	221.4	(over 2)
37694	Research and development on missile and space vehicle parts and components, n.e.c..	406.7	2.3	-	33.3	(over 2)	(5-10)	341.1	(over 2)
37690	Space vehicle equipment n.e.c., n.s.k. <sup>2</sup> .....	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
	Secondary products:								
3079	Miscellaneous plastics products.....	(X)	-	-	(20-50)	-	-	-	(X)
3429	Hardware, n.e.c.....	(X)	-	-	(2-5)	-	-	(under 2)	(X)
3443	Fabricated platework (boiler shops).....	(X)	-	(20-50)	(under 2)	-	-	(5-10)	(X)
3448	Prefabricated metal buildings.	(X)	-	-	(5-10)	-	-	-	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	(under 2)	(10-20)	(under 2)	-	-	(X)
3489	Ordnance, accessories, n.e.c..	(X)	(2-5)	(under 2)	1.1	(2-5)	(10-20)	(20-50)	(X)
3511	Turbines and turbine generator sets.....	(X)	-	(50-100)	(50-100)	-	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	-	45.2	(under 2)	-	-	-	(X)
3531	Construction machinery.....	(X)	-	(5-10)	(5-10)	-	-	-	(X)
3535	Conveyors and conveying equipment.....	(X)	-	-	(10-20)	-	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	(20-50)	4.9	-	-	-	(X)
3561	Pumps and pumping equipment...	(X)	-	(2-5)	3.6	-	-	-	(X)
3566	Speed changers, drives, and gears	(X)	-	(under 2)	(2-5)	-	-	-	(X)
3568	Power transmission equipment, n.e.c.....	(X)	-	(50-100)	(under 2)	-	-	-	(X)
3573	Electronic computing equipment	(X)	-	-	(under 2)	(5-10)	-	-	(X)
3585	Refrigeration and heating equipment.....	(X)	-	(under 2)	(2-5)	-	-	-	(X)
3589	Service industry machinery, n.e.c.....	(X)	-	-	(10-20)	(under 2)	-	-	(X)
3599	Machinery except electrical, n.e.c.....	(X)	(under 2)	(under 2)	5.7	-	-	-	(X)
3621	Motors and generators.....	(X)	-	-	5.3	-	(5-10)	(under 2)	(X)
3622	Industrial controls.....	(X)	-	-	(2-5)	-	-	-	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	-	(5-10)	(under 2)	-	-	(under 2)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Aircraft (SIC 3721)	Aircraft engines and engine parts (SIC 3724)	Aircraft equipment, n.e.c. (SIC 3728)	Guided missiles and space vehicles (SIC 3761)	Space propulsion units and parts (SIC 3764)	Space vehicle equipment, n.e.c. (SIC 3769)	Other industries
	Value of receipts of the industry--Continued								
3662	Secondary products--Continued								
	Radio and TV communication equipment.....	(X)	(10-20)	1.4	28.7	108.6	(10-20)	(2-5)	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	(20-50)	4.4	(10-20)	(under 2)	-	(X)
3731-	Ship building and repairing...	(X)	(under 2)	-	(under 2)	(50-100)	-	-	(X)
3743-	Railroad equipment.....	(X)	(2-5)	(20-50)	(20-50)	(under 2)	-	-	(X)
3795-	Tanks and tank components....	(X)	-	(10-20)	(under 2)	(2-5)	-	-	(X)
3811-	Engineering and scientific instruments.....	(X)	(10-20)	-	(20-50)	(under 2)	-	(under 2)	(X)
3832	Optical instruments and lenses	(X)	-	(2-5)	(under 2)	(under 2)	-	-	(X)
	Miscellaneous receipts, total...	(X)	380.3	331.7	110.8	201.4	7.0	72.1	(X)
	Contract work.....	(X)	31.2	12.8	29.1	54.6	(under 2)	2.2	(X)
	Sales of scrap and refuse.....	(X)	8.3	4.3	2.3	(under 2)	(under 2)	(under 2)	(X)
	Receipts for installation.....	(X)	(under 2)	(2-5)	(under 2)	-	(under 2)	-	(X)
	Receipts for research and development not attributable to aircraft, missile, or space vehicle engines, parts, or systems.....	(X)	(2-5)	22.9	(2-5)	13.0	(2-5)	39.2	(X)
	Receipts for repair work.....	(X)	1.2	(2-5)	41.4	(2-5)	(under 2)	(under 2)	-
	Other miscellaneous receipts..	(X)	78.0	3.8	4.0	3.6	2.4	29.9	(X)
	Sales of products bought and resold without further manufacture, processing, or assembly.....	(X)	259.0	281.0	31.6	125.4	(under 2)	(under 2)	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries				
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued					
3721	3811 Engineering and scientific instruments.....	(10-20)	3728	3559 Special industry machinery, n.e.c.....	(2-5)				
3724	3356 Nonferrous rolling and drawing, n.e.c.....	(5-10)		3585 Refrigeration and heating equipment.....	(2-5)				
	3443 Fabricated platework (boiler shops).....	(2-5)		3613 Switchgear and switchboard apparatus.....	(2-5)				
	3494 Valves and pipe fittings.....	10.4		3662 Radio and TV communication equipment.....	(10-20)				
	3511 Turbines and turbine generator sets.....	10.2		3679 Electronic components, n.e.c.....	(2-5)				
	3519 Internal combustion engines, n.e.c.....	7.3		3714 Motor vehicle parts and accessories.....	2.6				
	3561 Pumps and pumping equipment.....	(2-5)		3743 Railroad equipment.....	(2-5)				
	3585 Refrigeration and heating equipment.....	(2-5)		3811 Engineering and scientific instruments.....	3.1				
	3599 Machinery, except electrical, n.e.c.....	(2-5)		3825 Instruments to measure electricity.....	(2-5)				
	3621 Motors and generators.....	(5-10)		3829 Measuring and controlling devices, n.e.c.....	(2-5)				
	3662 Radio and TV communication equipment.....	(5-10)		3842 Surgical appliances and supplies..	6.4				
	3714 Motor vehicle parts and accessories.....	8.5		3861 Photographic equipment and supplies.....	(10-20)				
3728	2531 Public building and related furniture.....	(2-5)		3999 Manufacturing industries, n.e.c...	(10-20)				
	3041 Rubber and plastics hose and belting.....	(10-20)	3761	3662 Radio and TV communication equipment.....	(20-50)				
	3079 Miscellaneous plastics products...	6.0	3764	3483 Ammunition, except for small arms, n.e.c.....	(5-10)				
	3293 Gaskets, packing and sealing devices.....	(2-5)		3662 Radio and TV communication equipment.....	(5-10)				
	3356 Nonferrous rolling and drawing, n.e.c.....	(5-10)	3769	3041 Rubber and plastics hose and belting.....	(2-5)				
	3452 Bolts, nuts, rivets, and washers..	(2-5)		3483 Ammunition, except for small arms, n.e.c.....	5.7				
	3483 Ammunition, except for small arms, n.e.c.....	(5-10)		3484 Small arms.....	(2-5)				
	3523 Farm machinery and equipment.....	(2-5)		3489 Ordnance and accessories, n.e.c...	(20-50)				
	3544 Special dies, tools, jigs, and fixtures.....	(2-5)		3511 Turbines and turbine generator sets.....	(10-20)				
	3546 Power-driven handtools.....	(2-5)		3662 Radio and TV communication..... equipment.....	3.7				

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

<sup>1</sup>N.s.k. shown for industry 3724 includes n.s.k. for industries 3724 and 3764.

<sup>2</sup>N.s.k. shown for industry 3728 includes n.s.k. for industries 3728 and 3769.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Value of work done (million dollars)	
		1972	1967
3721- --	AIRCRAFT, TOTAL <sup>1</sup> .....	7,538.2	9,172.2
37211 --	Complete Aircraft, Military Type:		
	For U.S. military customers (excluding modifications, conversions, and other aeronautical services).....	2,802.9	4,408.0
37211 21	Fixed-wing aircraft.....	2,565.6	4,408.0
37211 23	Helicopters, autogyros, and other VTOL vehicles.....	235.3	
37211 27	Gliders.....	2.0	
37211 29	Balloons and other aircraft, not elsewhere classified.....		
37212 00	Personal and utility type, for other than U.S. military customers.....	<sup>2</sup> 474.2	3,504.9
37213 00	Commercial transport type, for other than U.S. military customers.....	<sup>2</sup> 2,787.3	
37214 --	Modifications, Conversions, and Overhaul of Previously Accepted Aircraft.....	373.9	596.8
37214 11	For U.S. military customers.....	319.1	510.2
37214 51	For other than U.S. military customers.....	54.8	79.6
37214 00	Modifications, conversions, and overhaul of previously accepted aircraft, n.s.k.....	-	7.0
37216 --	Other Aeronautical Services on Aircraft.....	1,067.1	635.2
	For U.S. military customers:		
37216 13	Research and development on complete aircraft.....	563.7	303.8
37216 15	All other aeronautical services on complete aircraft.....	334.0	212.6
	For other than U.S. military customers:		
37216 53	Research and development on complete aircraft.....	169.4	118.8
37216 55	All other aeronautical services on complete aircraft.....		
37210 00	Aircraft, n.s.k., for establishments with 10 employees or more. (See note.).....	30.0	26.3
37210 02	Aircraft, n.s.k., for establishments with less than 10 employees. (See note.).....	2.8	1.0
3761	GUIDED MISSILES AND SPACE VEHICLES, TOTAL.....	3,705.3	4,367.3
37611 11	Complete Missiles, Excluding Propulsion <sup>1</sup> .....	1,246.3	815.7
37612 --	Space Vehicle Systems (excluding propulsion) <sup>1</sup> .....	754.9	1,203.2
	Complete space vehicles for U.S. Government military customers:		
37612 21	Unmanned.....	426.9	480.8
37612 23	Manned.....		50.5
37612 27	Booster stages, excluding engines.....		7.7
	Complete space vehicles for U.S. Government nonmilitary customers:		
37612 31	Unmanned.....	328.0	61.2
37612 33	Manned.....		308.6
37612 37	Booster stages, excluding engines.....		294.4
37613 11	Research and Development on Complete Missiles <sup>1</sup> .....	660.8	867.6
37614 --	Research and Development on Complete Space Vehicles.....	599.7	743.6
37614 13	For U.S. Government military customers <sup>3</sup> .....	78.1	120.1
37614 15	For U.S. Government nonmilitary customers <sup>3</sup> .....	521.6	623.5
37615 --	All other Services on Complete Missiles and Space Vehicles.....	440.1	734.7
37615 11	All other services on complete missiles <sup>3</sup> .....	132.2	505.5
	All other services on complete space vehicles:		
37615 13	For U.S. Government military customers <sup>3</sup> .....	92.9	48.5
37615 15	For U.S. Government nonmilitary customers <sup>3</sup> .....	135.0	155.6
37615 23	For nongovernment customers <sup>3</sup> .....	80.0	25.1
37610 00	Guided missiles and space vehicles, completely assembled, n.s.k., for establishments with 10 employees or more. (See note.).....	3.5	2.5
37610 02	Guided missiles and space vehicles, completely assembled, n.s.k., for establishments with less than 10 employees. (See note.).....	-	-

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quentity	Value (million dollars)	Quanity	Value (million dollars)
3724- --	AIRCRAFT ENGINES AND ENGINE PARTS, TOTAL.....		(X)	3,069.7	(X)	3,759.8
37241 --	Aircraft Engines For U.S. Military Customers.....		(X)	437.1	(X)	1,087.6
37241 11	Reciprocating.....		}			
37241 14	Turbo-jet and turbo-fan.....					
37241 17	Turbo-prop and turbo-shaft.....					
37241 39	Other, including JATO bottles and liquid powerplants, excluding missile engines.....			(X)	437.1	(X)
37241 00	Aircraft engines for U.S. military customers, n.a.k.....					
37242 --	Aircraft Engines For Other Than U.S. Military Customers:		(X)	609.2	(X)	690.7
	Aa reported in the census of manufactures.....		(NA)	584.5	(NA)	652.0
	Aa reported in Current Industrial Reports series M-37C.....	1,000 units...				
37243 --	Aeronautical Services on Aircraft Engines <sup>3</sup> .....		(X)	692.1	(X)	526.5
	Research and development work on aircraft engines, including work done for affiliates and other establishments of the same company:					
37243 21	For U.S. military customers.....		(X)	498.6	(X)	393.0
37243 23	For other than U.S. military customers.....		(X)	24.6	(X)	( <sup>4</sup> )
	All other aeronautical services on aircraft engines:					
37243 31	For U.S. military customers.....		(X)	39.1	(X)	36.3
37243 33	For other than U.S. military customers.....		(X)	129.8	(X)	<sup>4</sup> 94.8
37243 00	Aeronautical services on aircraft engines, n.a.k.....		(X)	-	(X)	2.4
37244 --	Aircraft Engine Parts and Accessories.....		(X)	1,306.7	(X)	1,422.9
37244 13	For U.S. military customers.....		(X)	594.4	(X)	907.1
37244 53	For other than U.S. military customers.....		(X)	663.7	(X)	503.3
37244 00	Aircraft engine parts and accessories, n.a.k.....		(X)	48.6	(X)	12.5
37240 00	Aircraft engines and parts, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	23.1	(X)	29.7
37240 02	Aircraft engines and parts, n.a.k., for establishments with less than 10 employees. (See note.).....		(X)	1.5	(X)	2.1
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
3728- --	AIRCRAFT EQUIPMENT, N.E.C., TOTAL.....	3,436.9		4,465.0		
37281 --	Aircraft Parts and Accessories, N.E.C.....	3,169.1		4,085.4		
	Aircraft and related engine and power take-off gears:					
37281 13	For U.S. military customers.....	324.9		778.9		
37281 15	For other than U.S. military customers.....	146.1		443.8		
	Aircraft hydraulic subassemblies:					
37281 73	For U.S. military customers.....	55.0		( <sup>5</sup> )		
37281 75	For other than U.S. military customers.....	83.6		( <sup>5</sup> )		
	Aircraft pneumatic subassemblies:					
37281 83	For U.S. military customers.....	23.5		( <sup>5</sup> )		
37281 85	For other than U.S. military customers.....	56.9		( <sup>5</sup> )		
	Other aircraft subassemblies and parts:					
37281 91	For U.S. military customers.....	997.2		<sup>5</sup> 1,766.4		
37281 93	For other than U.S. military customers.....	1,349.5		<sup>5</sup> 1,005.5		
37281 00	Aircraft parts and auxiliary equipment, n.s.k.....	132.4		90.8		
37283 --	Research and Development on Aircraft Parts.....	99.4		85.7		
37283 13	For U.S. military customers.....	68.6		69.7		
37283 15	For other than U.S. military customers.....	30.8		16.0		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value  (million dollars)	Quantity	Value  (million dollars)
	AIRCRAFT EQUIPMENT, N.E.C.--Continued					
37285 --	Aircraft Propellers and Propeller Parts.....		(X)	58.3	(X)	119.5
37285 10, 51	Complete aircraft propellers and propeller parts: As reported in census of manufactures.....		(X)	45.8	(X)	79.0
	As reported in Current Industrial Reports Series Ma-37E.....		(X)	45.4	(X)	75.8
	For military aircraft.....		(D)	(D)	(X)	52.7
	Propellers.....	1,000 units...	(D)	(D)	(D)	(D)
	Parts <sup>6</sup> .....		(X)	(D)	(X)	(D)
	For civilian aircraft.....		(D)	(D)	(X)	23.0
	Propellers.....	1,000 units...	21.0	18.4	24.7	14.5
	Parts <sup>6</sup> .....		(X)	(D)	(X)	8.6
37285 31	Propeller hlades.....	1,000 units...	3.1	3.2	27.4	40.5
37285 61	Propeller parts produced in establishments not producing complete propellers.....		(X)	9.3	(X)	(NA)
37280 00	Aircraft parts and auxiliary equipment, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	93.5	(X)	164.8
37280 02	Aircraft parts and auxiliary equipment, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	16.6	(X)	9.6

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3764- --	SPACE PROPULSION UNITS AND PARTS, TOTAL.....	740.3	1,054.0
37645 --	Complete Missile or Space Vehicle Engines and/or Propulsion Units.....	7434.6	7451.7
37645 11	For U.S. Government military customers.....	335.2	304.2
37645 13	For U.S. Government nonmilitary customers.....	27.4	147.5
37645 00	Complete missile or space vehicle engines and/or propulsion units n.s.k.....		-
37646 --	Research and Development on Complete Missile or Space Vehicle Engines and/or Proplusion Units.....	7143.4	7389.1
37646 11	For U.S. Government military customers.....	89.2	261.3
37466 13	For U.S. Government nonmilitary customers.....	54.2	127.8
37645 00	Research and development on complete missile or space vehicle engines and/or propulsion units n.s.k.....		-
37647 --	All Other Services on Complete Missile or Space Vehicle Engines and/or Propulsion Units.....	7115.0	788.4
37647 11	For U.S. Government military customers.....	115.0	88.4
37647 13	For U.S. Government nonmilitary customers.....		
37648 --	Missile and Space Vehicle Engine and/or Propulsion Unit Parts and Accessories.....	47.1	93.9
37648 11	For U.S. Government military customers.....	34.4	51.2
37648 13	For U.S. Government nonmilitary customers.....	10.5	40.6
37648 00	Missile and space vehicle engine and/or propulsion unit parts and accessories n.s.k.....	2.2	2.1
37640 00	Space propulsion units and parts, n.s.k., for establishments with 10 employees or more. (See note.)..	.5	29.7
37640 02	Space propulsion units and parts, n.s.k., for establishments with less than 10 employees. (See note.)	-	1.2

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total receipts including interplant transfers (million dollars)	
		1972	1967
3769- --	SPACE VEHICLE EQUIPMENT, N.E.C., TOTAL.....	825.4	1,077.2
37692 --	Missile and Space Vehicle Parts and Subassemblies, N.E.C.....	418.7	674.0
	For U.S. Government military customers:		
37692 11	Airframes.....	95.2	203.5
37692 13	Space capsules.....		24.2
37692 19	All other.....		281.9
	For U.S. Government nonmilitary customers:		
37692 21	Airframes.....	16.3	22.3
37692 23	Space capsules.....		
37692 29	All other.....		
	For nongovernment customers:		
37692 31	Airframes.....	45.1	27.9
37692 33	Space capsules.....		
37692 39	All other.....		
37692 00	Missile and space vehicle parts and subassemblies, n.e.c., n.s.k.....	15.4	37.0
37694 --	Research and Development on Missile and Space Vehicle Parts and Components, N.E.C.....	406.7	403.2
	For U.S. Government military customers:		
37694 11	Airframes.....	4.5	13.0
37694 13	Space capsules.....		
37694 19	All other.....		
	For U.S. Government nonmilitary customers:		
37694 21	Airframes.....	174.2	74.5
37694 23	Space capsules.....		
37694 29	All other.....		
	For nongovernment customers:		
37694 31	Airframes.....		.1
37694 33	Space capsules.....		-
37694 39	All other.....		13.9
37694 00	Research and development on missile and space vehicle parts and components, n.e.c., n.s.k.....	8.2	12.3

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. In some cases, figures which are otherwise publishable are withheld to avoid indirect disclosure by subtraction from higher level totals or from related figures.

<sup>1</sup>Data represent shipments or value of work done, including modifications, conversions, and overhaul of previously accepted aircraft and other aeronautical services (including research and development on aircraft). "Value of accepted aircraft or missile systems" was also requested, but due to incomplete reporting, the data are not published.

<sup>2</sup>The comparable total reported in Current Industrial Reports series M-37G, "Complete Aircraft and Aircraft Engines," was \$3,231.8 million.

<sup>3</sup>Data were reported as "receipts or billings."

<sup>4</sup>For 1967, data for product code 37243 23 are combined with product code 37243 00.

<sup>5</sup>Aircraft hydraulic and pneumatic subassemblies were included with "Other aircraft subassemblies and parts" in 1967.

<sup>6</sup>Data reported in the Current Industrial Reports are limited to parts shipped by plants producing complete propellers. See product code 37285 61 for propeller parts produced in other establishments.

<sup>7</sup>Respondents were instructed to report either value of shipments or value of work done in 1972. The 1967 instructions provided for reporting receipts, billings, or value of work done.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COMPLETE AIRCRAFT, MILITARY TYPE (37211)			MODIFICATIONS, CONVERSIONS, AND OVERHAUL OF PREVIOUSLY ACCEPTED AIRCRAFT (37214)		
United States.....	2,802.9	(NA)	United States.....	373.9	596.8
Northeast Region.....	GG	(NA)	Northeast Region.....	85.4	121.0
New England Division.....	GG	(NA)	New England Division.....	31.0	16.8
Connecticut.....	GG	(NA)	Connecticut.....	31.0	16.8
Middle Atlantic Division.....	GG	(NA)	Middle Atlantic Division.....	54.4	104.2
New York.....	GG	(NA)	New York.....	EE	GG
Pennsylvania.....	FF	(NA)	Pennsylvania.....	FF	FF
North Central Region.....	GG	(NA)	North Central Region.....	FF	110.9
East North Central Division.....	FF	(NA)	East North Central Division.....	AA	FF
Ohio.....	FF	(NA)	Ohio.....	AA	FF
West North Central Division.....	GG	(NA)	West North Central Division.....	FF	GG
Missouri.....	GG	(NA)	Missouri.....	AA	(NA)
South Dakota.....	AA	(NA)	Kansas.....	FF	GG
Kansas.....	FF	(NA)			
South Region.....	1,156.1	(NA)	South Region.....	172.0	249.8
South Atlantic Division.....	GG	(NA)	South Atlantic Division.....	GG	GG
North Carolina.....	BB	(NA)	Maryland.....	CC	GG
Georgia.....	GG	(NA)	South Carolina.....	CC	(NA)
West South Central Division.....	GG	(NA)	Georgia.....	FF	CC
Oklahoma.....	FF	(NA)	Florida.....	EE	FF
Texas.....	747.5	(NA)			
West Region.....	629.7	(NA)	East South Central Division.....	FF	FF
Pacific Division.....	629.7	(NA)	Alabama.....	FF	FF
Washington.....	FF	(NA)	West South Central Division.....	79.0	GG
California.....	GG	(NA)	Oklahoma.....	BB	FF
			Texas.....	GG	GG
COMPLETE AIRCRAFT, PERSONAL AND UTILITY TYPE (37212)			West Region.....	GG	115.1
United States.....	474.2	(NA)	Pacific Division.....	GG	GG
Northeast Region.....	FF	(NA)	California.....	GG	GG
Middle Atlantic Division.....	FF	(NA)			
New York.....	BB	(NA)	OTHER AERONAUTICAL SERVICES ON AIRCRAFT (37216)		
Pennsylvania.....	FF	(NA)	United States.....	1,067.1	635.2
North Central Region.....	287.7	(NA)	Northeast Region.....	GG	39.7
East North Central Division.....	10.4	(NA)	New England Division.....	CC	BB
Ohio.....	CC	(NA)	Massachusetts.....	1.3	(NA)
Michigan.....	AA	(NA)	Connecticut.....	BB	BB
Wisconsin.....	BB	(NA)	Middle Atlantic Division.....	GG	FF
West North Central Division.....	277.3	(NA)	New York.....	GG	19.1
Minnesota.....	BB	(NA)	Pennsylvania.....	FF	EE
Kansas.....	GG	(NA)			
South Region.....	104.3	(NA)	North Central Region.....	GG	30.0
South Atlantic Division.....	GG	(NA)	East North Central Division.....	EE	EE
Georgia.....	FF	(NA)	Ohio.....	EE	EE
Florida.....	FF	(NA)	Indiana.....	BB	(NA)
West South Central Division.....	FF	(NA)	West North Central Division.....	FF	EE
Texas.....	FF	(NA)	Missouri.....	FF	EE
			Kansas.....	EE	EE
West Region.....	FF	(NA)	South Region.....	223.1	286.9
Pacific Division.....	FF	(NA)	South Atlantic Division.....	GG	FF
California.....	FF	(NA)	Georgia.....	GG	FF
			Florida.....	AA	(NA)
COMPLETE AIRCRAFT, COMMERCIAL TRANSPORT TYPE (37213)			West South Central Division.....	GG	GG
United States.....	2,787.3	(NA)	Oklahoma.....	AA	BB
Northeast Region.....	GG	(NA)	Texas.....	108.1	GG
New England Division.....	GG	(NA)			
Connecticut.....	GG	(NA)	West Region.....	568.7	278.7
South Region.....	113.7	(NA)	Mountain Division.....	EE	BB
South Atlantic Division.....	GG	(NA)	Arizona.....	EE	AA
Georgia.....	GG	(NA)	Pacific Division.....	GG	GG
West South Central Division.....	FF	(NA)	Washington.....	GG	GG
Texas.....	FF	(NA)	California.....	380.2	GG
West Region.....	2,620.8	(NA)			
Pacific Division.....	2,620.8	(NA)	AIRCRAFT ENGINES FOR U.S. MILITARY CUSTOMERS (37241)		
Washington.....	GG	(NA)	United States.....	437.1	(NA)
California.....	GG	(NA)	Northeast Region.....	GG	(NA)
			New England Division.....	GG	(NA)
			Massachusetts.....	GG	(NA)
			Connecticut.....	GG	(NA)

See footnotes at end of table.

Statistics are shown for selected product classes which are economically significant and which have production data that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AIRCRAFT ENGINES FOR U.S. MILITARY CUSTOMERS (37241)--Continued			AIRCRAFT ENGINE PARTS AND ACCESSORIES (37244)		
North Central Region.....	GG	(NA)	United States.....	1,306.7	1,422.9
East North Central Division.....	GG	(NA)	Northeast Region.....	731.9	889.3
Ohio.....	GG	(NA)	New England Division.....	575.4	610.6
Indiana.....	GG	(NA)	Maine.....	BB	CC
Michigan.....	AA	(NA)	New Hampshire.....	CC	CC
South Region.....	15.1	(NA)	Vermont.....	FF	FF
South Atlantic Division.....	BB	(NA)	Massachusetts.....	GG	GG
West Virginia.....	BB	(NA)	Connecticut.....	GG	453.9
East South Central Division.....	BB	(NA)	Middle Atlantic Division.....	156.5	278.7
Alabama.....	BB	(NA)	New York.....	FF	55.7
West South Central Division.....	CC	(NA)	New Jersey.....	46.4	GG
Texas.....	CC	(NA)	Pennsylvania.....	GG	GG
West Region.....	6.0	(NA)	North Central Region.....	441.9	473.5
Mountain Division.....	AA	(NA)	East North Central Division.....	429.4	459.0
Arizona.....	AA	(NA)	Ohio.....	234.0	229.8
Pacific Division.....	BB	(NA)	Indiana.....	121.5	107.2
California.....	BB	(NA)	Illinois.....	GG	FF
AIRCRAFT ENGINES FOR OTHER THAN U.S. MILITARY CUSTOMERS (37242)			Michigan.....	42.8	64.9
United States.....	609.2	(NA)	Wisconsin.....	BB	BB
Northeast Region.....	GG	(NA)	West North Central Division.....	12.5	14.4
New England Division.....	GG	(NA)	Minnesota.....	AA	(NA)
Massachusetts.....	EE	(NA)	Iowa.....	CC	BB
Connecticut.....	GG	(NA)	Missouri.....	CC	(NA)
Middle Atlantic Division.....	FF	(NA)	South Region.....	46.0	25.2
Pennsylvania.....	FF	(NA)	South Atlantic Division.....	17.2	FF
North Central Region.....	GG	(NA)	North Carolina.....	BB	BB
East North Central Division.....	GG	(NA)	Georgia.....	AA	(NA)
Ohio.....	GG	(NA)	Florida.....	12.7	EE
Indiana.....	FF	(NA)	East South Central Division.....	EE	BB
South Region.....	FF	(NA)	Kentucky.....	BB	BB
East South Central Division.....	FF	(NA)	Alabama.....	EE	(NA)
Alabama.....	FF	(NA)	West South Central Division.....	EE	(NA)
West Region.....	FF	(NA)	Oklahoma.....	AA	(NA)
Mountain Division.....	EE	(NA)	Texas.....	EE	(NA)
Arizona.....	EE	(NA)	West Region.....	86.9	35.0
Pacific Division.....	CC	(NA)	Mountain Division.....	29.6	BB
California.....	CC	(NA)	New Mexico.....	FF	(NA)
AIRCRAFT PARTS AND ACCESSORIES, N.E.C. (37281)			Arizona.....	CC	BB
United States.....			Pacific Division.....	57.3	FF
Northeast Region.....			California.....	GG	FF
New England Division.....					
Vermont.....					
Massachusetts.....					
Connecticut.....					
Middle Atlantic Division.....					
New York.....					
New Jersey.....					
Pennsylvania.....					
North Central Region.....					
East North Central Division.....					
Ohio.....					
Indiana.....					
Illinois.....					
Michigan.....					
West North Central Division.....					
Minnesota.....					
Missouri.....					
Kansas.....					
South Region.....					
South Atlantic Division.....					
Delaware.....					
Maryland.....					
Virginia.....					
Georgia.....					
Florida.....					
AERONAUTICAL SERVICES ON AIRCRAFT ENGINES (37243)					
United States.....	692.0	526.5			
Northeast Region.....	239.2	188.1			
New England Division.....	GG	GG			
Massachusetts.....	GG	GG			
Connecticut.....	GG	EE			
Middle Atlantic Division.....	FF	EE			
New Jersey.....	FF	EE			
North Central Region.....	GG	GG			
East North Central Division.....	GG	GG			
Ohio.....	GG	GG			
Indiana.....	FF	GG			
South Region.....	GG	GG			
South Atlantic Division.....	GG	GG			
Florida.....	GG	GG			
West South Central Division.....	FF	(NA)			
Oklahoma.....	AA	(NA)			
Texas.....	FF	(NA)			
West Region.....	60.7	BB			
Pacific Division.....	60.7	(NA)			
California.....	60.7	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AIRCRAFT PARTS AND ACCESSORIES N.E.C. (37281)--Continued			MISSILE SYSTEMS, EXCLUDING PROPULSION (37611)--Continued		
South Region--Continued			North Central Region.....	FF	(NA)
East South Central Division.....	GG	88.5	East North Central Division.....	EE	(NA)
Kentucky.....	AA	(NA)	Ohio.....	EE	(NA)
Tennessee.....	GG	GG	West North Central Division.....	EE	(NA)
Alabama.....	AA	BB	Missouri.....	EE	(NA)
West South Central Division.....	321.8	339.8	South Region.....	164.7	(NA)
Oklahoma.....	GG	56.9	South Atlantic Division.....	GG	(NA)
Texas.....	GG	282.9	Virginia.....	BB	(NA)
West Region.....	1,436.7	1,573.3	Florida.....	GG	(NA)
Mountain Division.....	114.9	124.7	East South Central Division.....	FF	(NA)
Colorado.....	32.4	36.4	Tennessee.....	CC	CC
Arizona.....	GG	GG	Alabama.....	EE	(NA)
Utah.....	CC	AA	West South Central Division.....	BB	(NA)
Pacific Division.....	1,321.8	1,448.6	Texas.....	BB	(NA)
Washington.....	FF	GG	West Region.....	979.2	(NA)
Oregon.....	CC	FF	Mountain Division.....	GG	(NA)
California.....	1,279.4	1,668.0	Colorado.....	GG	(NA)
RESEARCH AND DEVELOPMENT ON AIRCRAFT PARTS (37283)			Arizona.....	GG	(NA)
United States.....	99.5	85.7	Utah.....	BB	(NA)
Northeast Region.....	31.1	FF	Pacific Division.....	GG	(NA)
New England Division.....	FF	FF	Washington.....	GG	(NA)
Connecticut.....	FF	FF	California.....	532.4	(NA)
Middle Atlantic Division.....	10.4	EE	SPACE VEHICLE SYSTEMS, EXCLUDING PROPULSION (37612)		
New York.....	EE	CC	United States.....	754.9	(NA)
North Central Region.....	17.8	EE	Northeast Region.....	FF	(NA)
East North Central Division.....	CC	CC	Middle Atlantic Division.....	FF	(NA)
Ohio.....	7.2	CC	New York.....	FF	(NA)
Illinois.....	AA	(NA)	North Central Region.....	CC	(NA)
West North Central Division.....	CC	EE	West North Central Division.....	CC	(NA)
Missouri.....	AA	(NA)	Missouri.....	CC	(NA)
Kansas.....	CC	EE	South Region.....	FF	(NA)
South Region.....	BB	(NA)	West South Central Division.....	FF	(NA)
South Atlantic Division.....	BB	(NA)	Louisiana.....	FF	(NA)
Maryland.....	BB	(NA)	Texas.....	CC	(NA)
West Region.....	FF	34.8	West Region.....	666.3	(NA)
Mountain Division.....	EE	(NA)	Pacific Division.....	666.3	(NA)
Arizona.....	EE	(NA)	California.....	666.3	(NA)
Pacific Division.....	31.1	34.8	RESEARCH AND DEVELOPMENT ON COMPLETE MISSILES (37613)		
Washington.....	BB	-	United States.....	660.8	(NA)
California.....	FF	34.8	North Central Region.....	GG	(NA)
AIRCRAFT PROPELLERS (37285)			East North Central Division.....	FF	(NA)
United States.....	58.3	(NA)	Ohio.....	FF	(NA)
Northeast Region.....	FF	(NA)	Indiana.....	CC	(NA)
New England Division.....	FF	(NA)	West North Central Division.....	GG	(NA)
Connecticut.....	FF	(NA)	Missouri.....	FF	(NA)
North Central Region.....	21.4	(NA)	Kansas.....	EE	(NA)
East North Central Division.....	FF	(NA)	South Region.....	GG	(NA)
Ohio.....	EE	(NA)	South Atlantic Division.....	GG	(NA)
Indiana.....	CC	(NA)	Florida.....	GG	(NA)
Illinois.....	BB	(NA)	West South Central Division.....	BB	(NA)
West Region.....	CC	(NA)	Texas.....	BB	(NA)
Pacific Division.....	CC	(NA)	West Region.....	487.8	(NA)
California.....	CC	(NA)	Mountain Division.....	BB	(NA)
MISSILE SYSTEMS, EXCLUDING PROPULSION (37611)			New Mexico.....	BB	(NA)
United States.....	1,246.3	(NA)	Pacific Division.....	GG	(NA)
Northeast Region.....	GG	(NA)	Washington.....	EE	(NA)
New England Division.....	GG	(NA)	California.....	GG	(NA)
Massachusetts.....	GG	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
RESEARCH AND DEVELOPMENT ON COMPLETE SPACE VEHICLES (37614)			RESEARCH AND DEVELOPMENT ON COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS (37646)		
United States.....	599.7	(NA)	United States.....	143.4	(NA)
Northeast Region.....	CC	(NA)	North Central Region.....	28.7	(NA)
Middle Atlantic Division.....	CC	(NA)	East North Central Division.....	FF	(NA)
New York.....	CC	(NA)	Ohio.....	17.6	(NA)
South Region.....	FF	(NA)	Indiana.....	CC	(NA)
South Atlantic Division.....	EE	(NA)	West North Central Division.....	CC	(NA)
Florida.....	EE	(NA)	Minnesota.....	CC	(NA)
East South Central Division.....	AA	(NA)	South Region.....	21.9	(NA)
Alabama.....	AA	(NA)	South Atlantic Division.....	BB	(NA)
West South Central Division.....	FF	(NA)	Maryland.....	AA	(NA)
Louisiana.....	EE	(NA)	East South Central Division.....	EE	(NA)
Texas.....	CC	(NA)	Alabama.....	EE	(NA)
West Region.....	550.5		West South Central Division.....	CC	(NA)
Mountain Division.....	GG	(NA)	Oklahoma.....	AA	(NA)
Colorado.....	GG	(NA)	Texas.....	CC	(NA)
Pacific Division.....	GG	(NA)	West Region.....	92.8	(NA)
Washington.....	FF	(NA)	Mountain Division.....	CC	(NA)
California.....	GG	(NA)	Utah.....	CC	(NA)
			Pacific Division.....	GG	(NA)
ALL OTHER SERVICES ON COMPLETE MISSILES AND SPACE VEHICLES (37615)			Washington.....	AA	(NA)
United States.....	440.1	(NA)	California.....	GG	(NA)
Northeast Region.....	EE	(NA)	ALL OTHER SERVICES ON COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS (37647)		
New England Division.....	EE	(NA)	United States.....	115.0	(NA)
Massachusetts.....	EE	(NA)	North Central Region.....	GG	(NA)
North Central Region.....	CC	(NA)	East North Central Division.....	GG	(NA)
East North Central Division.....	CC	(NA)	Ohio.....	GG	(NA)
Indiana.....	CC	(NA)	South Region.....	CC	(NA)
South Region.....	149.4	(NA)	West South Central Division.....	CC	(NA)
South Atlantic Division.....	GG	(NA)	Texas.....	CC	(NA)
Florida.....	81.4	(NA)	West Region.....	52.9	(NA)
East South Central Division.....	FF	(NA)	Pacific Division.....	GG	(NA)
Alabama.....	FF	(NA)	California.....	GG	(NA)
Mississippi.....	BB	(NA)	MISSILE AND SPACE VEHICLE ENGINE AND/OR PROPULSION UNIT PARTS AND ACCESSORIES (37648)		
West South Central Division.....	FF	(NA)	United States.....	47.1	(NA)
Louisiana.....	BB	(NA)	Northeast Region.....	BB	(NA)
Texas.....	EE	(NA)	Middle Atlantic Division.....	3.7	(NA)
West Region.....	267.2	(NA)	New York.....	BB	(NA)
Mountain Division.....	4.9	(NA)	Pennsylvania.....	AA	(NA)
Arizona.....	BB	(NA)	North Central Region.....	BB	(NA)
Pacific Division.....	262.3	(NA)	East North Central Division.....	BB	(NA)
Washington.....	GG	(NA)	Indiana.....	AA	(NA)
California.....	GG	(NA)	South Region.....	14.8	(NA)
COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS (37645)			South Atlantic Division.....	EE	(NA)
United States.....	434.6	(NA)	Maryland.....	AA	(NA)
Northeast Region.....	CC	(NA)	Virginia.....	BB	(NA)
New England Division.....	BB	(NA)	Florida.....	CC	(NA)
Connecticut.....	BB	(NA)	West South Central Division.....	BB	(NA)
Middle Atlantic Division.....	BB	(NA)	Texas.....	BB	(NA)
New York.....	BB	(NA)	West Region.....	25.8	(NA)
North Central Region.....	GG	(NA)	Pacific Division.....	GG	(NA)
East North Central Division.....	GG	(NA)	California.....	GG	(NA)
Indiana.....	GG	(NA)	MISSILE AND SPACE VEHICLE PARTS AND SUBASSEMBLIES, N.E.C. (37692)		
South Region.....	FF	(NA)	United States.....	418.7	(NA)
South Atlantic Division.....	EE	(NA)	Northeast Region.....	19.6	(NA)
Maryland.....	EE	(NA)	New England Division.....	15.4	(NA)
Florida.....	BB	(NA)	Vermont.....	BB	(NA)
East South Central Division.....	EE	(NA)	Connecticut.....	EE	(NA)
Alabama.....	EE	(NA)			
West Region.....	313.0	(NA)			
Mountain Division.....	GG	(NA)			
Utah.....	GG	(NA)			
Pacific Division.....	GG	(NA)			
Washington.....	CC	(NA)			
California.....	164.5	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MISSILE AND SPACE VEHICLE PARTS AND SUBASSEMBLIES, N.E.C. (37692)--Continued			RESEARCH AND DEVELOPMENT ON MISSILE AND SPACE VEHICLE PARTS AND COMPONENTS, N.E.C. (37694)		
Northeast Region--Continued			United States.....	406.7	(NA)
Middle Atlantic Division.....	4.2	(NA)	Northeast Region.....	GG	(NA)
New York.....	3.1		New England Division.....	EE	(NA)
North Central Region.....	150.2	(NA)	Connecticut.....	EE	(NA)
East North Central Division.....	GG	(NA)	Middle Atlantic Division.....	GG	(NA)
Ohio.....	42.4	(NA)	New York.....	BB	(NA)
Illinois.....	6.1	(NA)	Pennsylvania.....	GG	(NA)
Michigan.....	3.2	(NA)	North Central Region.....	57.5	(NA)
West North Central Division.....	GG	(NA)	East North Central Division.....	FF	(NA)
Minnesota.....	FF	(NA)	Ohio.....	CC	(NA)
Missouri.....	GG	(NA)	Illinois.....	AA	(NA)
Nebraska.....	AA	(NA)	Michigan.....	FF	(NA)
South Region.....	50.3	(NA)	West North Central Division.....	CC	(NA)
South Atlantic Division.....	21.1		Missouri.....	CC	(NA)
Maryland.....	CC	(NA)	South Region.....	33.0	(NA)
West Virginia.....	BB	(NA)	South Atlantic Division.....	EE	(NA)
Florida.....	EE	(NA)	Maryland.....	BB	(NA)
East South Central Division.....	EE	(NA)	Florida.....	CC	(NA)
Tennessee.....	BB	(NA)	East South Central Division.....	FF	(NA)
Alabama.....	EE	(NA)	Alabama.....	FF	(NA)
West South Central Division.....	EE	(NA)	West Region.....	FF	(NA)
Oklahoma.....	EE	(NA)	Mountain Division.....	BB	(NA)
Texas.....	BB	(NA)	Utah.....	BB	(NA)
West Region.....	198.7	(NA)	Pacific Division.....	28.3	(NA)
Mountain Division.....	11.3	(NA)	California.....	28.3	(NA)
Colorado.....	CC	(NA)			
Arizona.....	BB	(NA)			
Pacific Division.....	187.4	(NA)			
Washington.....	FF	(NA)			
California.....	GG	(NA)			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

- Represents zero. (NA) Not available.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3721	Aircraft.....	7,538.2	8,019.4	8,721.8	10,220.1	10,709.9	9,172.2	4,330.5	5,362.7
37211	Complete aircraft, military type.....	2,802.9	3,855.0	3,832.7	3,754.9	4,429.8	4,408.0	2,470.3	3,501.6
37212	Complete aircraft, personal and utility type.....	474.2	2,834.6	3,175.9	4,726.7	4,806.0	3,504.9	157.8	988.2
37213	Complete aircraft, commercial transport type.....	2,787.3						561.1	
37214	Modifications, conversion, and overhaul of accepted aircraft.....	373.9	366.2	499.5	712.3	648.9	596.8	465.5	298.8
37216	Other aeronautical services on aircraft.....	1,067.1	950.6	1,198.6	995.4	794.9	635.2	668.4	574.0
37210	Aircraft, n.s.k.....	32.8	13.0	(15.1)	30.8	30.3	27.3	7.5	-
3724	Aircraft engines and engine parts.....	3,069.7	3,059.0	3,865.7	3,832.1	3,967.6	3,759.8	2,120.5	3,326.0
37241	Aircraft engines for U.S. military customers.....	437.1	628.4	932.3	1,109.4	1,020.1	1,087.6	644.4	<sup>2</sup> 1,399.0
37242	Aircraft engines for other than military customers.....	609.2	582.4	678.0	671.6	838.3	690.7	150.0	-
37243	Aeronautical services on aircraft engines.....	692.1	564.4	571.9	496.8	533.7	526.5	385.3	<sup>3</sup> 664.7
37244	Aircraft engine parts and accessories.....	1,306.7	1,273.4	1,671.5	1,526.3	1,548.1	1,422.9	932.1	<sup>4</sup> 1,261.4
37240	Aircraft engines and engine parts, n.s.k. <sup>5</sup> .....	24.6	10.4	12.0	28.0	27.4	31.8	8.7	-
3728	Aircraft equipment, n.e.c.....	3,436.9	3,850.6	4,415.5	5,090.1	4,283.9	4,465.0	2,471.3	(NA)
37281	Aircraft parts and accessories, n.e.c.....	3,169.1	3,616.5	4,142.0	4,774.0	4,578.8	4,085.4	2,215.3	2,860.6
37283	Research and development on aircraft parts.....	99.4	92.4	100.4	102.6	103.8	85.7	74.5	(NA)
37285	Aircraft propellers.....	58.3	57.5	87.8	116.2	123.3	119.5	109.0	167.0
37280	Aircraft equipment, n.e.c., n.s.k. <sup>6</sup> .....	110.1	84.2	85.3	97.3	22.4	174.4	72.5	-
3761	Guided missiles and space vehicles.....	3,705.3	3,574.8	3,770.3	4,363.8	4,420.7	4,367.3	4,032.8	1,886.7
37611	Missile systems excluding propulsion.....	1,246.3	1,150.6	1,251.4	1,364.8	1,152.5	815.7	1,719.8	900.8
37612	Space vehicle systems excluding propulsion.....	754.9	825.7	960.2	1,172.6	1,359.0	1,203.2		
37613	Research and development on complete missiles.....	660.8	681.3	593.6	627.6	551.9	867.3	1,628.2	985.8
37614	Research and development on complete space vehicles.....	599.7	558.8	566.7	723.1	705.6	743.6		
37615	Other services on complete missiles and space vehicles.....	440.1	358.4	398.4	475.7	651.7	734.7	684.7	-
37610	Guided missile and space vehicles, n.s.k.....	3.5	-	-	-	-	2.9	-	-
3764	Space propulsion units and parts.....	740.6	699.9	727.8	775.2	911.2	1,054.0	1,488.9	(NA)
37645	Complete missile or space vehicle engines.....	434.6	386.0	334.1	251.2	373.0	451.7	582.6	( <sup>2</sup> )
37646	Research and development on missile, space vehicle engines.....	143.4	169.7	225.7	369.2	372.6	389.1	696.8	( <sup>4</sup> )
37647	Other services on complete missile, space vehicle engines.....	115.0	103.4	126.3	104.6	82.7	88.4	61.7	( <sup>3</sup> )
37648	Missile and space vehicle engine parts and accessories.....	47.1	40.8	41.7	50.2	82.9	93.9	147.8	( <sup>4</sup> )
37640	Space propulsion units and parts, n.s.k. <sup>5</sup> .....	.5	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	30.9	( <sup>5</sup> )	( <sup>5</sup> )
3769	Space vehicle equipment, n.e.c.....	825.4	916.4	857.8	974.2	1,092.8	1,077.2	1,429.7	889.9
37692	Missile and space vehicle parts, etc., n.e.c.....	418.7	481.5	462.6	542.1	663.1	674.0	1,009.3	509.2
37694	Research and development on missile, and space vehicle parts and components.....	406.7	434.9	395.2	432.1	429.7	403.2	420.4	380.7
37690	Space vehicle equipment, n.e.c., n.s.k. <sup>6</sup> .....	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )

- Represents zero. (NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and/or, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>For 1954 to 1962, data for complete missile or space vehicle engines and/or propulsion units were included with aircraft engines.

<sup>3</sup>For 1954 to 1962, data on receipts for research and development on complete missile or space vehicle engines and/or propulsion units, and all other services on complete missile or space vehicle engines and/or propulsion units were included with receipts for research and development on aircraft engines.

<sup>4</sup>For 1954 to 1962, data on missile and space vehicle engine and/or propulsion unit parts or accessories were included with aircraft engine parts and accessories.

<sup>5</sup>For 1958, 1963, and 1968 to 1971, n.s.k. data shown for industry 3724 includes n.s.k. for industries 3724 and 3764.

<sup>6</sup>For 1958, 1963, and 1968 to 1971, n.s.k. data shown for industry 3728 includes n.s.k. for industries 3728 and 3769.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3721.--AIRCRAFT					
	Materials, components, parts, containers, and supplies, total.	.....	(X)	3,685.5	(X)	5,185.2
	Mill shapes and forms:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	2.4	1.3	29.5	7.4
331012	Sheet and strip.....	..do.....	2.3	.7	11.4	2.2
331013	Plates.....	..do.....	3.3	1.3	3.5	.9
331015	Structural sbapes.....	..do.....	1.8	.5	2.4	.7
331017	Wire and wire products.....	..do.....	.9	.5	2.9	1.4
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel (except stainless):					
331021	Bars and bar sbapes.....	..do.....	2.5	2.9	7.1	3.8
331029	All other alloy steel mill sbapes and forms.....	..do.....	2.0	1.5	6.5	4.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....	2.4	6.0	4.5	7.7
331050	All other stainless steel mill sbapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	1.5	11.4	7.8	14.6
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	1.7	1.3	.4	.4
335102	Rod, bar, and mechanical wire, including extruded and/or drawn sbapes.....	..do.....	.5	.6	.4	.9
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	.4	.4	1.3	.7
335152	Pipe and tube.....	..do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	56.6	45.1	109.1	82.9
335405	Extruded sbapes (including extruded rod, bar, pipe, tube, etc.)..	..do.....	25.3	32.3	37.0	47.1
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welding tubing, etc.).....	..do.....	4.9	6.0	9.1	11.2
335628	Titanium and titanium-base alloy.....	..do.....	2.0	16.3	2.2	18.4
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	1.1	4.7	3.0	5.0
336100	Aluminum and aluminum-base alloy.....	Million lb....	9.2	19.7	9.8	21.0
336200	Copper and copper-base alloy.....	..do.....	.1	.3	.1	.2
	Forgings: <sup>1</sup>					
346200	Iron and steel.....	1,000 s. tons.	1.3	4.7	3.8	10.1
346310	Aluminum and aluminum-base alloy.....	Million lb....	12.4	26.3	10.5	17.1
346326	Titanium and titanium-base alloy.....	..do.....	1.1	12.4	1.3	16.7
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	2.0	.4	5.8	.6
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	6.3	.6	8.6	.8
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....	4.7	1.5	13.3	1.8
	Bearings:					
356218	Ball.....	.....	(X)	3.3	(X)	2.7
356201	Roller.....	.....	(X)	1.7	(X)	3.2
356120	Hydraulic fluid power pumps, motors, and related hydraulic equipment.....	.....	(X)	32.6	(X)	25.2
220123	Broad woven fabrics (cotton, wool, manmade fiber fabrics, etc.)...	Mil. lin. yd..	(NA)	8.5	5.5	19.3
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	3,397.6	(X)	4,790.9
976000	Materials, components, parts, containers, and supplies consumed,.. n.s.k. <sup>2</sup> .....	.....	(X)	43.4	(X)	66.3

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
	INDUSTRY 3724.--AIRCRAFT ENGINES AND ENGINE PARTS			
	Materials, components, parts, containers, and supplies, total.	.....	(X)	1,451.0
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar sbapes.....	1,000 s. tons.....	5.6	3.3
331012	Sheet and strip.....	..do.....	7.1	2.9
331013	Plates.....	..do.....	2.8	1.2
331015	Structural shapes.....	..do.....	66.1	34.0
331017	Wire and wire products.....	..do.....	2.4	1.6
331019	All other carbon steel mill shapes and forms.....	..do.....	.7	.3

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3724.--AIRCRAFT ENGINES AND ENGINE PARTS--Continued			
	Materials, components, parts, containers, and supplies--Con.			
	Mill shapes and forms, except castings:			
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	1,000 s. tons.....	17.5	11.7
331029	All other alloy steel mill shapes and forms.....	...do.....	3.8	12.8
	Stainless steel:			
331033	Sheet and strip.....	...do.....	3.6	16.0
331050	All other stainless steel mill shapes and forms.....	...do.....	3.6	8.1
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	.5	.6
	Copper and copper-base alloy:			
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb.....	.6	.7
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	1.2	1.2
335152	Pipe and tube.....	...do.....	1.2	1.8
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	...do.....	.5	.5
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.....	...do.....	1.0	1.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	9.4	3.0
335628	Titanium and titanium-base alloy.....	...do.....	.8	5.9
	Castings, rough and semifinished: <sup>1</sup>			
332045	Steel.....	1,000 s. tons.....	4.9	49.1
336100	Aluminum and aluminum-base alloy.....	Million lb.....	21.6	35.6
336200	Copper and copper-base alloy.....	...do.....	.5	.6
	Forgings: <sup>1</sup>			
346200	Iron and steel.....	1,000 s. tons.....	30.0	76.9
346310	Aluminum and aluminum-base alloy.....	Million lb.....	2.8	3.1
346326	Titanium and titanium-base alloy.....	...do.....	12.8	50.8
	Electric motors and generators: <sup>1</sup>			
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	15.1	.3
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....	(Z)	(Z)
362120	Integral horsepower motors and generators (1 hp. and over).....	...do.....	(Z)	(Z)
	Bearings:			
356218	Ball.....	.....	(X)	7.7
356201	Roller.....	.....	(X)	6.4
356120	Hydraulic fluid powerpumps, motors, and related hydraulic equipment.....	.....	(X)	5.5
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)....	Million lin. yd.....	(NA)	.1
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	1,082.3
976000	Materials, components, parts, containers, supplies consumed, n.s.k. <sup>2</sup> .....	.....	(X)	25.7
	INDUSTRY 3728.--AIRCRAFT EQUIPMENT, N.E.C.			
	Materials, components, parts, containers, and supplies, total.	.....	(X)	869.4
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	14.8	4.2
331012	Sheet and strip.....	...do.....	8.4	4.1
331013	Plates.....	...do.....	3.1	.9
331015	Structural shapes.....	...do.....	8.8	1.7
331017	Wire and wire products.....	...do.....	(NA)	.5
331019	All other carbon steel mill shapes and forms.....	...do.....	1.5	.5
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	...do.....	6.2	5.0
331029	All other alloy steel mill shapes and forms.....	...do.....	7.1	8.4
	Stainless steel:			
331033	Sheet and strip.....	...do.....	9.6	23.6
331050	All other stainless steel mill shapes and forms.....	...do.....	4.0	7.9
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	6.7	8.5
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction only).....	Million lb.....	.1	.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	.9	.9
335143	Plate, sheet, and strip, including military cups and discs....	...do.....	.4	.4
335152	Pipe and tube.....	...do.....	2.3	.9

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
			(million dollars)	
	INDUSTRY 3728.--AIRCRAFT EQUIPMENT, N.E.C.--Continued			
	Materials, components, parts, containers, and supplies--Con.			
	Mill shapes and forms, except castings:			
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	Million lb.....	31.1	26.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, ect.....	...do.....	29.7	38.0
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(NA)	10.0
335628	Titanium and titanium-base alloy.....	1,000 lb.....	(NA)	18.5
	Castings, rough and semifinished: <sup>1</sup>			
332045	Steel.....	1,000 s. tons.....	23.9	21.3
336100	Aluminum and aluminum-base alloy.....	Million lb.....	12.4	21.9
336200	Copper and copper-base alloy.....	...do.....	.3	.5
	Forgings: <sup>1</sup>			
346200	Iron and steel.....	1,000 s. tons.....	22.9	26.6
346310	Aluminum and aluminum-base alloy.....	Million lb.....	7.6	17.0
346326	Titanium and titanium-base alloy.....	...do.....	.5	4.9
	Electric motors and generators: <sup>1</sup>			
362110	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(NA)	.9
362115	Other fractional horsepower electric motors, excluding timing motors.....	...do.....	26.7	2.0
362120	Integral horsepower motors and generators (1 hp. and over)....	...do.....	6.7	2.0
	Bearings:			
356218	Ball.....		(X)	7.8
356201	Roller.....		(X)	7.1
356120	Hydraulic fluid power pumps, motors, and related hydraulic equipment.....		(X)	2.5
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)...	Million lin. yd.....	4.3	8.1
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	540.3
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>2</sup> .....		(X)	45.5

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
			(million dollars)		(million dollars)	
	INDUSTRY 3761.--GUIDED MISSILES AND SPACE VEHICLES					
	Materials, parts, containers, and supplies, total.....		(X)	923.5	(X)	970.0
	Mill shapes and forms except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	15.5	(NA)	3.0
331013	Plates.....	...do.....				
331015	Structural shapes.....	...do.....				
331012	Sheet and strip.....	...do.....				
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel:					
331021	Bars and bar shapes.....	...do.....	14.6	11.3	4.1	4.3
331029	All other alloy steel mill shapes and forms.....	...do.....				
	Stainless steel:					
331033	Sheet and strip.....	...do.....	.4	1.1	2.0	3.5
331050	All other stainless steel mill shapes and forms.....	...do.....	.3	.7		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.8	2.2	1.1	2.5
	Copper and copper-base alloy:					
335728	Bare wire for electrical conduction.....	Million lb....	(D)	(D)	.1	.3
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	(NA)	.4	(NA)	.2
335143	Plate, sheet, and strip, including military cups and discs....	...do.....				
335152	Pipe and tube.....	...do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	4.5	3.6	11.6	11.0
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	3.8	4.5	9.8	8.4
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	...do.....			4.1	2.0
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	.2	.4	.7	.5
336100	Aluminum and aluminum-base alloy.....	Million lb....	2.1	2.8	1.5	3.3
336200	Copper and copper-base alloy.....		-	-	(D)	(D)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Materiel	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3761.--GUIDED MISSILES AND SPACE VEHICLES--Continued					
	Materials, parts, containers, and supplies--Continued					
	Forgings: <sup>1</sup>					
346200	Iron and steel.....	1,000 s. tons.	(D)	(D)	.2	.7
346310	Aluminum and aluminum-base alloy.....	Million lb....	1.1	2.1	1.2	1.3
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	(D)	(D)
362115	Other fractional horsepower motors.....		(D)	(D)	(D)	(D)
362120	Integral hp. motors and generators.....		(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	}	(X)	.8	(X)	.3
356201	Roller.....				-	-
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	861.4	(X)	9788.5
976000	Materials, parts, and supplies, n.s.k. <sup>2</sup> .....		(X)	7.2	(X)	140.2

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
	INDUSTRY 3764.--SPACE PROPULSION UNITS AND PARTS			
	Materials, components, parts, containers, and supplies, total.			(X) 203.5
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	}	.8
331012	Sheet and strip.....	..do.....		
331013	Plates.....	..do.....		
331015	Structural shapes.....	..do.....		
331017	Wire and wire products.....	..do.....		
331019	All other carbon steel mill shapes and forms.....	..do.....		
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	..do.....		
331029	All other alloy steel mill shapes and forms.....	..do.....		
	Stainless steel:			
331033	Sheet and strip.....	..do.....		14.0
331050	All other stainless steel mill shapes and forms.....	..do.....		
335790	Insulated wire and cable.....	Mil. lb. (copper content).....		(Z)
	Copper and copper-base alloy:			
335728	Bare wire (for electrical conduction only).....	Million lb.....		(Z)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	}	(D)
335143	Plate, sheet, and strip, including military cups and discs....	..do.....		
335152	Pipe and tube.....	..do.....		
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	..do.....		.7
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....		1.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....		4.6
335628	Titanium and titanium-base alloy.....	..do.....		.1
	Castings, rough and semifinished: <sup>1</sup>			
332045	Steel.....	1,000 s. tons.....		(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....		.3
336200	Copper and copper-base alloy.....	..do.....		(D)
	Forgings: <sup>1</sup>			
346200	Iron and steel.....	1,000 s. tons.....		(D)
346310	Aluminum and aluminum-base alloy.....	Million lb.....		(D)
346326	Titanium and titanium-base alloy.....	..do.....		(D)
	Electric motors and generators: <sup>1</sup>			
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....		(D)
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....		(D)
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....		(Z)
	Bearings:			
356218	Ball.....			(X)
356201	Roller.....			(X)

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost		
				(million dollars)		
	INDUSTRY 3764.--SPACE PROPULSION UNITS AND PARTS--Con.					
	Materials, components, parts, containers, and supplies--Con.					
356120	Hydraulic fluid powerpumps, motors, and related hydraulic equipment.....	1,000 units.....	(NA)	.4		
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	173.3		
976000	Materials, components, parts, containers, supplies consumed, n.s.k. <sup>2</sup> .....	.....	(X)	.5		
	INDUSTRY 3769.--SPACE VEHICLE EQUIPMENT, N.E.C.					
	Materials, components, parts, containers, and supplies, total.	.....	(X)	<sup>3</sup> 242.2		
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....	(NA)	1.9		
331012	Sheet and strip.....	..do.....				
331013	Plates.....	..do.....				
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	(NA)	2.7		
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....				
331050	All other stainless steel mill shapes and forms.....	..do.....				
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	(D)	(D)		
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	(NA)	.3		
335143	Plate, sheet, and strip, including military cups and discs...	..do.....				
335152	Pipe and tube.....	..do.....				
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	1.4	1.3		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	.6	.4		
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	(NA)	.6		
335628	Titanium and titanium-base alloy.....	1,000 lb.....	(D)	(D)		
	Castings, rough and semifinished: <sup>1</sup>					
332045	Steel.....	1,000 s. tons.....	(D)	(D)		
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	.5		
	Forgings: <sup>1</sup>					
346200	Iron and steel.....	1,000 s. tons.....	(NA)	.9		
346310	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	1.3		
346326	Titanium and titanium-base alloy.....	..do.....	(D)	(D)		
	Electric motors and generators: <sup>1</sup>					
	Fractional horsepower electric motors (under 1 hp.):					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units.....	(D)	(D)		
362115	Other fractional horsepower electric motors, excluding timing motors.....	..do.....				
362120	Integral horsepower motors and generators (1 hp. and over).....	..do.....				
	Bearings:					
356218	Ball.....	.....	(X)	(D)		
356201	Roller.....	.....				
356120	Hydraulic fluid power pumps, motors, and related hydraulic equipment.....	.....	(D)	(D)		
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)....	Million lin. yd.....				
970099	All other materials and components, parts, containers, and supplies consumed.....	.....				
976000	Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>2</sup> .....	.....	(X)	224.4		
			(X)	5.3		

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Excludes quantities produced and consumed in the same establishment.

<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

<sup>3</sup>Includes cost for materials indicated by the symbol (D).



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	3721.—AIRCRAFT					
	Purchased fuels and electric energy.....		(X)	43.9	(X)	38.9
	Purchased fuels, total.....		(X)	12.5	(X)	10.8
121005	Coal.....	1,000 s. tons.....	31.7	.3	73.0	.5
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	455.4	2.3	410.0	1.5
291141	Distillate.....	...do.....	94.9	.5	195.0	1.0
291151	Residual.....	...do.....	360.5	1.8	215.0	.5
131300	Natural gas.....	Billion ft <sup>3</sup> .....	15.0	6.5	14.3	5.8
960011	Other fuels.....		(X)	2.8	(X)	2.7
975000	Fuels, n.s.k.....		(X)	.6	(X)	.3
960012	Purchased electric energy.....	Million kWh.....	3,429.4	31.4	3,479.9	28.1
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(D)	-
	Total energy used for heat and power <sup>1</sup> .....	Bill. kWh equiv....	9.8	-	9.8	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(S) Withheld because the estimates did not meet publication standards.

<sup>1</sup>Represents the quantity of purchased electric energy and the kilowatt hours equivalent of all fuels used for heat and power.

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# Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment

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# EXPLANATORY TEXT

## SHIP AND BOAT BUILDING, RAILROAD AND MISCELLANEOUS TRANSPORTATION EQUIPMENT

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

**3731—Ship Building and Repairing**

**3732—Boat Building and Repairing**

**3743—Railroad Equipment**

**3751—Motorcycles, Bicycles, and Parts**

**3792—Travel Trailers and Campers**

**3795—Tanks and Tank Components**

**3799—Transportation Equipment, N.E.C.**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3731.—SHIP BUILDING AND REPAIRING

This industry comprises establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships.

Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard

Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

For a detailed list of products of industry 3731, refer to table 6A, product codes 37311 11 to 37316 59.

Value of work done and other receipts of the Ship Building and Repairing Industry in 1972 totaled \$3,281 million. This included value of ship building and repair (primary products) valued at \$3,124 million, shipments of other products (secondary products) valued at \$73 million, and miscellaneous receipts of \$84 million.

Value of work done on ship building and repairing (primary products) in 1972 represented 98 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent.

Value of work done on ship building and repairing (primary products) in establishments classified in industry 3731 in 1972 represented 98 percent (coverage ratio) of these products valued at \$3,201 million shipped by all industries. In 1967, the coverage ratio was also 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3731, these establishments accounted for 1 percent of value of shipments.

### INDUSTRY 3732.—BOAT BUILDING AND REPAIRING

This Industry includes establishments primarily engaged in building and repairing all types of boats.

Establishments primarily engaged in cleaning and storing boats and in the rental of dock space, and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in SIC Major Group 30.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.



The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. The product classes within the industry were revised, however. For a detailed list of products of industry 3732, refer to table 6A, product codes 37322 21 to 37328 21.

Value of shipments and other receipts of the Boat Building and Repairing Industry in 1972 totaled \$1,054 million. This included shipments of boats and a value of boat repairing (primary products) valued at \$990 million, shipments of other products (secondary products) valued at \$33 million, and miscellaneous receipts (mainly resales) of \$30 million.

Shipments of boats and boat repairing (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 96 percent.

Shipments of boats and boat repairing (primary products) from establishments classified in industry 3732 in 1972 represented 96 percent (coverage ratio) of these products valued at \$1,031 million shipped by all industries. In 1967, the coverage ratio was 91 percent. Other industries shipping and repairing boats consisted mainly of industry 3731 (\$14 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3732, these establishments accounted for 23 percent of value of shipments.

#### INDUSTRY 3743.—RAILROAD EQUIPMENT

This industry comprises establishments primarily engaged in building and rebuilding locomotives (including frames and parts not elsewhere classified) of any type or gage; and railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley buses.

Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, rebuilding or repairing locomotives or cars, or building new locomotives or cars for their own account, are classified in SIC Major Groups 40 and 41.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The Railroad Equipment Industry is included for the first time in the census of manufactures for 1972. It was derived by combining industry 3741, Locomotives and Parts, and industry 3742, Railroad and Street Cars, under the classification system followed in the 1967 census. The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 34 establishments with 19.5 thousand total employment and \$591 million value added would have been classified in industry 3741 under the old SIC. Industry 3742 would have had 129 establishments with 31.3 thousand total employment and \$522 million value added. For a detailed list of products of industry 3743, refer to table 6A, product codes 37431 44 to 37433 51.

Value of shipments and other receipts of the Railroad Equipment Industry in 1972 totaled \$2,446 million. This included shipments of railroad equipment (primary products) valued at \$2,151 million, shipments of other products (secondary products) valued at \$188 million, and miscellaneous receipts of \$106 million.

Shipments of railroad equipment (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio for 1967 is not available.

Shipments of railroad equipment (primary products) from establishments classified in industry 3743 in 1972 represented 95 percent (coverage ratio) of these products valued at \$2,284 million shipped by all industries. In 1967, the coverage ratio was 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3743, these establishments accounted for 1 percent of value of shipments.

#### INDUSTRY 3751.—MOTORCYCLES, BICYCLES, AND PARTS

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts.

This industry also includes establishments primarily engaged in assembling motorcycles or bicycles from purchased parts.

Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry

3944. Establishments primarily engaged in manufacturing golf carts and other similar personnel carriers are classified in industry 3799.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number from the previous classification, but were significantly changed in comparison with data classified by the previous system. For a detailed list of products of industry 3751, refer to table 6A, product codes 37511 61 to 37512 53.

Value of shipments and other receipts of the Motorcycles, Bicycles, and Parts Industry in 1972 totaled \$660 million. This included shipments of motorcycles, bicycles, and parts (primary products) valued at \$514 million, shipments of other products (secondary products) valued at \$118 million, and miscellaneous receipts (mainly resales) of \$28 million.

Shipments of motorcycles, bicycles, and parts (primary products) in 1972 represented 81 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of motorcycles, bicycles, and parts (primary products) from establishments classified in industry 3751 in 1972 represented 95 percent (coverage ratio) of these products valued at \$541 million shipped by all industries. In 1967, the coverage ratio was 96 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3751, these establishments accounted for 4 percent of value of shipments.

#### INDUSTRY 3792.—TRAVEL TRAILERS AND CAMPERS

This industry comprises establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles and pickup coaches (campers) or caps (covers) for mounting on pickup trucks. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste.

Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

The classification of establishments for which data are tabulated in this report is based upon the definitions and

coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual published by the Office of Management and Budget, Executive Office of the President.

The classification system followed in the 1967 census (old SIC 3791) was split, as a result of the 1972 edition of the SIC manual, into two separate industries: Industry 3792, Travel Trailers and Campers, and industry 2451, Mobile Homes. In addition, small collapsible travel trailers, previously included in SIC 3799, are now included in this industry.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 31 establishments with 3.8 thousand total employment and \$45 million value added would have been classified in industry 3799 under the old SIC. For a detailed list of products of industry 3792, refer to table 6A, product codes 37921 31 to 37922 47.

Value of shipments and other receipts of the Travel Trailers and Campers Industry in 1972 totaled \$1,347 million. This included shipments of travel trailers and campers (primary products) valued at \$1,203 million, shipments of other products (secondary products) valued at \$111 million, and miscellaneous receipts (mainly resales) of \$34 million.

Shipments of travel trailers and campers (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of transportation equipment, not elsewhere classified, (\$42 million).

Shipments of travel trailers and campers (primary products) from establishments classified in industry 3792 in 1972 represented 94 percent (coverage ratio) of these products valued at \$1,276 million shipped by all industries. Other industries shipping travel trailers and campers consisted mainly of industry 3713 (\$40 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3792, these establishments accounted for 24 percent of value of shipments.

#### INDUSTRY 3795.—TANKS AND TANK COMPONENTS

This industry comprises establishments primarily engaged in manufacturing or assembling complete tanks and specialized components for tanks.



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## EXPLANATORY TEXT—Continued

Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in SIC group 371, and tank engines in industry 3519.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were changed to code number 3795 from code number 1931 in the previous classification system but were not changed as to content.

Value of shipments and other receipts of the Tanks and Tank Components Industry in 1972 totaled \$272 million. This included shipments of tanks and tank components (primary products) valued at \$220 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts of \$41 million.

Shipments of tanks and tank components (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent.

Shipments of tanks and tank components (primary products) from establishments classified in industry 3795 in 1972 represented 77 percent (coverage ratio) of these products valued at \$285 million shipped by all industries. In 1967, the coverage ratio was 76 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3795, these establishments accounted for less than 1 percent of value of shipments.

### INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C.

This industry comprises establishments primarily engaged in manufacturing transportation equipment, not elsewhere classified.

Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles, except bicycles, in industry 3944.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The code number for this industry in the 1972 revision of the SIC is unchanged, but the content has been significantly changed. Collapsible camping trailers and travel trailers less than 11 feet in length (1967 product code 37991 21) are included in industry 3792, Travel Trailers and Campers, in 1972. Farm wagons, trucks, and other farm transportation equipment and parts (1967 product code 37992 10) are included in industry 3523, Farm Machinery and Equipment, in 1972. Conversely, self-propelled golf carts, etc., (1972 product code 37993 81) were included in 1967 in industry 3751, Motorcycles, Bicycles, and Parts.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 18 establishments with 700 total employment and \$6.4 million value added would have been classified in different industries under the old SIC. For a detailed list of products of industry 3799, refer to table 6A, product codes 37993 81 to 37999 98.

Value of shipments and other receipts of the Transportation Equipment, N.E.C., Industry in 1972 totaled \$655 million. This included shipments of transportation equipment, n.e.c., (primary products) valued at \$581 million, shipments of other products (secondary products) valued at \$44 million, and miscellaneous receipts (mainly resales) of \$30 million.

Shipments of transportation equipment, n.e.c., (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of transportation equipment, n.e.c., (primary products) from establishments classified in industry 3799 in 1972 represented 74 percent (coverage ratio) of these products valued at \$782 million shipped by all industries. In 1967, the coverage ratio was 75 percent. Other industries shipping transportation equipment, n.e.c., consisted mainly of industry 3751 at \$44 million and industry 3792 at \$42 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3799, these establishments accounted for 10 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year¹	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Cover-age ratio
	Total	With 20 employ-ees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3731.--SHIP BUILDING AND REPAIRING														
1972 Census.....	455	277	144.6	1,422.3	117.7	233.4	1,053.2	²1,881.3	1,399.7	²3,281.0	142.0	(NA)	721.3	98	98
1971 ASM.....	(NA)	(NA)	128.4	1,179.9	104.7	207.9	879.5	1,575.3	1,186.3	2,761.5	89.0	1,021.5	³547.9	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	133.4	1,161.2	108.5	212.8	869.7	1,609.8	1,074.6	2,682.4	144.8	948.1	⁴441.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	142.9	1,212.4	117.7	235.3	926.6	1,451.3	1,108.4	2,559.7	88.1	826.6	⁵503.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	142.0	1,133.1	117.5	232.6	867.3	1,345.9	1,142.3	2,488.3	75.9	729.2	⁶558.1	(NA)	(NA)
1967 Census.....	415	253	138.8	1,076.0	114.2	231.0	819.4	1,430.4	1,087.8	2,518.2	70.3	689.5	800.3	95	98
1966 ASM.....	(NA)	(NA)	135.3	1,058.2	114.3	236.8	819.1	1,362.0	984.1	2,338.9	52.8	(NA)	658.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	130.4	946.0	109.5	223.0	737.9	1,204.1	869.9	2,078.2	44.6	(NA)	567.6	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	115.1	819.9	97.1	197.0	632.5	1,057.7	768.4	1,826.4	32.8	538.7	457.7	(NA)	(NA)
1963 Census.....	334	200	114.6	782.3	96.5	193.5	610.2	1,009.7	670.1	1,679.8	24.5	505.7	344.1	92	99
1962 ASM.....	(NA)	(NA)	111.6	732.7	94.1	186.2	577.4	953.9	716.3	1,670.2	23.0	481.9	400.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	114.2	728.7	95.7	187.6	569.2	919.7	701.2	1,621.2	31.6	(NA)	389.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	107.7	670.5	90.1	179.7	521.6	860.0	600.6	1,460.7	28.9	(NA)	401.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	116.3	673.2	96.3	186.1	519.4	951.9	614.1	1,566.1	33.8	(NA)	379.3	(NA)	(NA)
1958 Census.....	319	222	119.1	669.8	101.2	197.7	537.8	913.7	711.9	1,625.6	38.7	(NA)	408.0	93	99
	INDUSTRY 3732.--BOAT BUILDING AND REPAIRING														
1972 Census.....	1,778	369	40.9	282.9	33.8	64.4	213.5	519.4	554.8	1,053.6	37.3	(NA)	211.0	97	96
1971 ASM.....	(NA)	(NA)	30.3	198.3	24.4	47.1	148.5	353.9	377.7	741.8	19.0	212.9	157.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	30.9	189.1	25.2	49.2	141.3	330.0	353.0	673.0	17.3	200.2	158.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	38.5	233.0	32.8	65.1	184.0	388.0	411.5	781.0	*31.3	164.6	161.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	32.3	185.6	27.7	56.5	147.1	321.2	325.9	639.1	*12.3	144.9	136.7	(NA)	(NA)
1967 Census.....	1,596	287	30.5	163.0	26.2	51.8	128.1	274.8	298.4	571.4	15.8	141.7	115.5	96	91
1966 ASM.....	(NA)	(NA)	30.8	145.7	25.2	49.2	111.8	247.4	261.3	485.1	*12.4	(NA)	137.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	28.9	136.6	24.6	49.5	109.1	220.8	235.8	448.8	12.7	(NA)	91.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	26.6	126.6	22.5	46.4	99.2	217.9	212.5	423.1	*14.1	119.8	84.0	(NA)	(NA)
1963 Census.....	1,626	268	24.9	116.1	20.9	42.0	91.4	183.1	183.2	360.2	13.5	114.8	78.6	97	95
1962 ASM.....	(NA)	(NA)	22.7	104.3	18.8	40.0	80.7	148.1	174.5	314.4	*12.4	102.3	66.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	22.7	100.6	18.7	40.0	77.5	138.1	175.8	316.6	*17.9	(NA)	57.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	26.4	111.4	22.2	43.4	86.0	155.6	201.7	357.6	*22.5	(NA)	65.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	29.1	121.5	24.9	49.9	96.5	176.4	216.4	389.4	*16.6	(NA)	77.2	(NA)	(NA)
1958 Census.....	1,651	277	25.3	103.6	21.2	40.3	81.4	157.3	178.8	329.0	15.3	(NA)	75.0	93	95
	INDUSTRY 3743.--RAILROAD EQUIPMENT														
1972 Census.....	163	103	50.8	529.1	38.4	72.7	371.9	1,113.3	1,341.2	2,446.2	55.3	(NA)	459.4	92	95
1971 ASM.....	(NA)	(NA)	53.2	512.0	40.7	78.2	363.3	1,018.3	1,372.3	2,363.9	65.7	667.9	470.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	53.7	479.1	41.5	79.6	343.2	878.4	1,323.6	2,178.9	48.6	607.5	441.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	54.4	470.6	42.9	85.7	347.3	915.9	1,364.7	2,259.7	49.2	554.8	426.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	48.3	386.0	36.9	72.0	274.2	725.3	1,022.5	1,723.1	33.4	516.8	397.4	(NA)	(NA)
1967 Census.....	123	85	56.6	426.7	44.4	86.3	313.9	787.9	1,298.2	2,110.5	40.4	516.8	389.2	(NA)	94
1966 ASM.....	(NA)	(NA)	61.0	466.1	49.3	100.2	355.2	960.4	1,470.7	2,396.4	44.1	(NA)	406.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	57.9	417.3	46.4	92.6	316.3	806.4	1,337.8	2,140.9	35.6	(NA)	362.3	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	52.4	370.1	41.2	84.4	277.7	721.6	1,100.9	1,767.8	29.6	409.8	344.9	(NA)	(NA)
1963 Census.....	102	70	45.0	301.7	34.9	68.0	217.5	541.4	840.8	1,365.1	18.1	389.0	270.0	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	41.6	279.4	31.6	62.1	196.8	501.2	660.4	1,108.9	17.1	375.6	249.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	34.6	224.9	24.9	47.3	145.8	323.0	525.0	882.9	11.3	(NA)	207.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	42.2	262.4	32.4	62.1	183.3	451.2	680.5	1,118.8	12.1	(NA)	248.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	38.3	233.8	28.5	54.7	158.7	450.9	556.6	948.0	*11.9	(NA)	231.8	(NA)	(NA)
1958 Census.....	92	57	39.6	223.4	28.6	53.7	149.4	319.7	535.6	969.7	14.9	(NA)	164.2	(NA)	(NA)
	INDUSTRY 3751.--MOTORCYCLES, BICYCLES, AND PARTS³														
1972 Census.....	222	52	17.6	139.6	15.0	29.1	106.2	315.2	373.0	659.5	16.0	(NA)	128.8	81	95
1971 ASM.....	(NA)	(NA)	13.7	105.8	11.4	22.2	79.1	217.1	256.6	469.6	8.1	91.2	99.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	14.8	99.0	12.0	22.2	73.1	186.2	245.0	425.5	7.3	92.2	96.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	12.7	83.6	10.4	20.0	61.3	146.4	202.0	346.7	8.1	81.7	77.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	12.6	79.2	10.6	20.9	59.2	165.8	191.5	345.9	9.1	71.4	73.0	(NA)	(NA)
1967 Census.....	91	33	12.0	70.3	10.1	19.1	53.4	136.2	170.6	299.6	5.5	65.9	60.3	89	96
1966 ASM.....	(NA)	(NA)	11.5	63.1	9.6	18.1	47.1	112.6	149.9	261.1	5.8	(NA)	49.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	11.2	62.1	9.3	18.2	46.1	106.1	146.0	247.1	7.4	(NA)	46.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	10.0	54.0	8.2	16.6	39.8	99.4	131.8	228.1	6.2	(NA)	40.3	(NA)	(NA)
1963 Census.....	88	33	9.7	48.4	7.9	15.2	34.4	82.2	112.2	192.9	3.2	(NA)	36.0	83	93
1962 ASM.....	(NA)	(NA)	9.0	42.9	7.3	14.0	30.1	74.2	102.9	172.6	3.3	(NA)	34.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	8.2	38.2	6.6	12.8	26.9	59.2	93.6	153.1	2.6	(NA)	27.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	8.3	37.5	6.7	12.6	26.7	61.2	84.6	143.1	3.1	(NA)	27.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	8.7	38.7	7.1	13.8	28.6	67.0	86.5	149.7	3.3	(NA)	25.4	(NA)	(NA)
1958 Census.....	51	29	7.6	33.0	6.2	12.2	24.1	52.1	69.1	121.5	2.5	(NA)	22.0	84	93

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
1972 Census.....	INDUSTRY 3792.--TRAVEL TRAILERS AND CAMPERS <sup>4</sup>														
	1,033	388	37.3	267.5	31.2	58.1	196.9	481.6	887.5	1,347.1	35.5	(NA)	162.6	92	94
	INDUSTRY 3795.--TANKS AND TANK COMPONENTS <sup>5</sup>														
1972 Census.....	22	15	5.9	65.0	4.6	9.0	46.9	111.7	150.1	272.2	3.1	(NA)	35.8	95	77
1971 ASM .....	(NA)	(NA)	7.3	72.4	5.1	10.1	44.9	181.1	193.8	345.2	3.0	41.7	*65.6	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	8.1	76.0	5.3	10.7	46.4	139.5	208.4	360.1	3.2	39.2	35.7	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	9.6	89.7	6.4	13.5	57.4	142.1	238.5	421.8	1.2	37.6	72.5	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	12.6	108.8	9.2	18.7	71.6	180.6	333.4	506.4	2.8	38.7	97.2	(NA)	(NA)
1967 Census.....	27	21	13.2	101.4	10.0	20.7	68.1	144.7	263.4	394.1	3.3	38.1	87.9	85	76
1966 ASM .....	(NA)	(NA)	10.1	82.8	7.1	15.6	50.4	133.3	155.8	274.1	5.7	(NA)	74.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	7.6	56.3	5.0	10.8	33.6	106.1	116.3	220.0	1.8	(NA)	60.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	9.1	62.9	6.0	11.6	37.1	78.1	212.5	296.6	1.4	29.9	72.7	(NA)	(NA)
1963 Census.....	26	19	11.3	76.6	7.8	16.2	48.4	148.4	258.9	394.1	5.2	31.0	82.0	95	79
1962 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	25.7	(NA)	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census .....	17	10	7.1	39.9	4.6	9.7	25.2	63.7	143.9	212.4	1.5	(NA)	29.4	89	84
1972 Census.....	INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C. (1972 SIC BASIS) <sup>4</sup>														
	501	192	16.1	117.2	13.4	25.2	82.0	232.8	434.3	654.6	16.9	(NA)	113.5	93	74
	INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C. (1967 SIC BASIS)														
1972 Census.....	594	236	22.4	172.2	18.9	35.9	123.2	325.0	581.4	891.3	24.8	(NA)	159.7	(NA)	(NA)
1971 ASM .....	(NA)	(NA)	17.2	120.6	13.9	27.8	85.3	242.0	400.0	635.3	12.1	102.4	108.6	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	15.0	99.1	12.4	24.5	70.5	198.6	302.5	493.5	10.6	91.4	99.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	15.9	100.3	13.2	26.2	73.1	173.2	270.2	439.8	*15.2	67.5	77.9	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	12.5	71.8	10.6	21.2	51.7	152.0	216.1	351.2	5.5	50.4	74.3	(NA)	(NA)
1967 Census.....	454	141	11.2	60.5	9.4	18.4	43.8	116.9	170.1	284.4	6.4	44.9	41.1	94	75
1966 ASM .....	(NA)	(NA)	9.5	47.9	7.8	15.4	34.1	95.1	139.2	232.2	5.0	(NA)	33.7	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	8.6	43.1	7.0	14.5	30.5	81.0	135.1	214.4	4.0	(NA)	29.1	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	9.2	43.3	7.4	14.7	31.8	75.8	113.3	187.0	2.1	(NA)	29.2	(NA)	(NA)
1963 Census.....	522	108	8.0	37.5	6.7	13.2	27.8	68.8	99.4	167.4	3.7	(NA)	26.3	89	75
1962 ASM .....	(NA)	(NA)	5.8	28.1	4.7	9.2	18.5	45.2	78.3	123.0	.9	(NA)	18.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	5.8	27.4	4.6	9.5	17.5	40.6	70.8	111.1	1.1	(NA)	18.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	6.0	28.3	4.9	9.6	18.9	43.0	73.8	115.9	2.3	(NA)	19.0	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	5.5	24.9	4.3	8.9	17.4	40.7	74.0	113.4	2.3	(NA)	17.6	(NA)	(NA)
1958 Census .....	256	69	4.8	20.4	3.8	7.4	14.2	38.2	55.1	92.8	2.4	(NA)	14.9	86	73

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3731	Industry 3732	Industry 3743	Industry 3751	Industry 3792	Industry 3795	Industry 3799
1972.....	415	1,716	127	219	945	18	444
1967.....	389	1,565	109	(NA)	(NA)	23	(NA)
1963.....	305	1,626	91	(NA)	(NA)	23	(NA)

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability. <sup>†</sup>Revised.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Establishments in this industry reported value of work done rather than value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for inventory change between the beginning and end of the year. It does include value added by resale.

<sup>3</sup>The products of this industry were revised in the 1972 edition of the SIC manual. Self-propelled golf carts were moved from industry 3751 to industry 3799. This change affected the statistics shown in this table by less than 1 percent for 1972, and these 1972 data are comparable to prior years.

<sup>4</sup>Comparable data prior to 1972 are not available.

<sup>5</sup>Includes data only for privately owned and/or operated establishments. Government owned and operated establishments are excluded.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3731.--SHIP BUILDING AND REPAIRING											
1972 Census.....	9,836	(NA)	81	1,983	4.51	.43	.86	(NA)	13,010	76	8.06
1971 ASM.....	9,189	7,956	82	1,986	4.23	.43	.86	.37	12,269	75	7.58
1970 ASM.....	8,705	7,107	81	1,961	4.09	.40	.83	.35	12,067	72	7.57
1969 ASM.....	8,484	5,780	82	1,999	3.94	.43	.91	.32	10,156	84	6.17
1968 ASM.....	7,980	5,140	83	1,980	3.73	.46	.91	.29	9,478	84	5.79
1967 Census.....	7,752	4,970	82	2,023	3.55	.43	.86	.27	10,305	75	6.19
1966 ASM.....	7,820	(NA)	84	2,072	3.46	.42	.87	(NA)	10,066	78	5.75
1965 ASM.....	7,253	(NA)	84	2,037	3.31	.42	.87	(NA)	9,232	79	5.40
1964 ASM.....	7,121	4,680	84	2,029	3.21	.42	.87	.29	9,187	78	5.37
1963 Census.....	6,823	4,410	84	2,005	3.15	.40	.86	.30	8,807	77	5.22
1962 ASM.....	6,565	4,320	84	1,980	3.10	.43	.87	.29	8,546	77	5.12
1961 ASM.....	6,380	(NA)	84	1,960	3.03	.43	.88	(NA)	8,052	79	4.90
1960 ASM.....	6,226	(NA)	84	1,994	2.90	.41	.87	(NA)	7,986	78	4.79
1959 ASM.....	5,790	(NA)	83	1,933	2.79	.39	.82	(NA)	8,187	71	5.12
1958 Census.....	5,622	(NA)	85	1,955	2.72	.44	.85	(NA)	7,669	73	4.62
INDUSTRY 3732.--BOAT BUILDING AND REPAIRING											
1972 Census.....	6,917	(NA)	83	1,905	3.31	.53	.80	(NA)	12,699	54	8.07
1971 ASM.....	6,545	7,026	81	1,930	3.15	.51	.78	.29	11,680	56	7.51
1970 ASM.....	6,120	6,479	82	1,952	2.87	.53	.81	.30	10,680	57	6.71
1969 ASM.....	6,052	4,280	85	1,985	2.83	.53	.83	.21	10,078	60	5.96
1968 ASM.....	5,746	4,490	86	2,040	2.60	.51	.80	.23	9,944	58	5.68
1967 Census.....	5,344	4,650	86	1,977	2.47	.52	.81	.25	9,010	59	5.31
1966 ASM.....	4,728	(NA)	82	1,957	2.27	.54	.84	(NA)	8,027	59	5.03
1965 ASM.....	4,733	(NA)	85	2,011	2.21	.53	.83	(NA)	7,649	62	4.46
1964 ASM.....	4,764	4,500	85	2,064	2.14	.50	.80	.28	8,201	58	4.70
1963 Census.....	4,672	4,610	84	2,013	2.18	.51	.83	.32	7,363	63	4.36
1962 ASM.....	4,604	4,510	83	2,127	2.02	.55	.80	.33	6,534	70	3.70
1961 ASM.....	4,439	(NA)	83	2,136	1.94	.56	.87	(NA)	6,094	73	3.46
1960 ASM.....	4,226	(NA)	84	1,952	1.98	.56	.88	(NA)	5,905	72	3.58
1959 ASM.....	4,183	(NA)	86	2,006	1.94	.56	.87	(NA)	6,071	69	3.54
1958 Census.....	4,096	(NA)	84	1,907	2.02	.54	.86	(NA)	6,219	66	3.90
INDUSTRY 3743.--RAILROAD EQUIPMENT											
1972 Census.....	10,415	(NA)	76	1,893	5.12	.55	.76	(NA)	21,915	48	15.31
1971 ASM.....	9,624	12,555	77	1,921	4.65	.58	.80	.28	19,141	50	13.02
1970 ASM.....	8,922	11,313	77	1,918	4.31	.61	.83	.28	16,358	55	11.04
1969 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1967 Census.....	7,539	9,130	78	1,944	3.64	.62	.81	.24	13,920	54	9.13
1966 ASM.....	7,641	(NA)	81	2,032	3.54	.61	.81	(NA)	15,744	49	9.58
1965 ASM.....	7,207	(NA)	80	1,996	3.42	.62	.82	(NA)	13,927	52	8.71
1964 ASM.....	7,063	7,820	79	2,049	3.29	.62	.83	.23	13,771	51	8.55
1963 Census.....	6,704	8,640	78	1,948	3.20	.62	.84	.28	12,031	56	7.96
1962 ASM.....	6,716	9,030	76	1,965	3.17	.60	.85	.34	12,048	56	8.07
1961 ASM.....	6,500	(NA)	72	1,900	3.08	.59	.85	(NA)	9,335	70	6.83
1960 ASM.....	6,218	(NA)	77	1,917	2.95	.61	.84	(NA)	10,692	58	7.27
1959 ASM.....	6,104	(NA)	75	1,919	2.90	.59	.83	(NA)	11,773	52	8.24
1958 Census.....	5,641	(NA)	72	1,878	2.78	.55	.78	(NA)	8,073	70	5.95
INDUSTRY 3751.--MOTORCYCLES, BICYCLES, AND PARTS											
1972 Census.....	7,932	(NA)	85	1,940	3.65	.57	.78	(NA)	17,909	44	10.83
INDUSTRY 3792.--TRAVEL TRAILERS AND CAMPERS											
1972 Census.....	7,172	(NA)	84	1,856	3.39	.66	.86	(NA)	12,911	56	8.29



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3795.--TANKS AND TANK COMPONENTS											
1972 Census.....	11,017	(NA)	78	1,957	5.21	.55	.79	(NA)	18,932	58	12.41
1971 ASM.....	9,918	5,712	70	1,980	4.45	.56	.77	.12	24,808	40	17.93
1970 ASM.....	9,383	4,840	65	2,019	4.34	.58	.79	.11	17,222	55	13.04
1969 ASM.....	9,344	3,920	67	2,109	4.25	.57	.78	.09	14,802	63	10.53
1968 ASM.....	8,635	3,070	73	2,033	3.83	.66	.87	.08	14,333	60	9.66
1967 Census.....	7,682	2,880	76	2,070	3.29	.67	.93	.10	10,962	70	6.99
1966 ASM.....	8,210	(NA)	70	2,203	3.23	.57	.87	(NA)	11,167	74	7.21
1965 ASM.....	7,429	(NA)	67	2,146	3.10	.53	.78	(NA)	11,432	65	8.01
1964 ASM.....	6,880	3,290	65	1,952	3.19	.72	.93	.10	8,542	81	6.71
1963 Census.....	6,773	2,740	69	2,084	2.98	.66	.85	.08	13,122	52	9.14
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	5,639	(NA)	65	2,089	2.61	.68	.87	(NA)	9,013	63	6.60
INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C.											
1972 Census.....	7,279	(NA)	83	1,880	3.25	.66	.84	(NA)	14,459	50	9.24

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)	
New industry 3743.—Railroad Equipment.....	163	103	50.8	1,113.3	2,446.2	(X)	(X)	(X)	(X)	(X)
Old industry 3741.—Locomotives and Parts.....	34	16	19.5	591.1	1,059.4	34	16	19.5	591.1	1,059.4
Old industry 3742.—Railroad and Street Cars.....	129	87	31.3	522.2	1,386.8	129	87	31.3	522.2	1,386.8
New industry 3792.—Travel Trailers and Campers.....	1,033	388	37.3	481.6	1,347.1	(X)	(X)	(X)	(X)	(X)
Old industry 3791.—Trailer Coaches.....	1,002	364	33.5	436.6	1,204.1	<sup>1</sup> 1,705	967	105.8	1,491.3	4,488.4
Old industry 3799.—Transportation Equipment, N.E.C.....	31	24	3.8	45.0	143.0	<sup>2</sup> 594	236	22.4	325.0	891.3
New industry 3799.—Transportation Equipment, N.E.C.....	501	192	16.1	232.8	654.6	(X)	(X)	(X)	(X)	(X)
Old industry 3751.—Motorcycles, Bicycles, and Parts ....	18	10	.7	6.4	32.1	227	53	17.7	316.9	663.9
Old industry 3791.—Trailer Coaches.....						<sup>1</sup> 1,705	967	105.8	1,491.3	4,488.4
Old industry 3799.—Transportation Equipment, N.E.C.....						<sup>2</sup> 594	236	22.4	325.0	891.3

(X) Not applicable.

<sup>1</sup>The balance of establishments classified in old industry 3791 are now classified in new industry 2451, Mobile Homes.<sup>2</sup>Of the total establishments shown, approximately 81 establishments classified in old industry 3799 are now classified in new industry 3523, Farm Machinery and Equipment.

TABLE 2: General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3731-- SHIP BUILDING AND REPAIRING													
UNITED STATES. . . . .	455	277	144.6	1 422.3	117.7	233.4	1 053.2	1 881.3	1 399.7	3 281.0	142.0	138.8	1 430.4
NORTHEAST REGION. . . . .	106	62	32.7	339.2	21.9	43.0	191.8	487.7	224.0	711.7	26.5	39.5	397.8
NEW ENGLAND DIVISION. . . . .	36	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
MAINE. . . . .	13	5	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
MASSACHUSETTS. . . . .	16	9	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
RHODE ISLAND. . . . .	4	3	.2	1.4	.1	.3	1.1	2.7	1.6	4.3	.1	(NA)	(NA)
CONNECTICUT. . . . .	3	3	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
MIDDLE ATLANTIC DIVISION. . . . .	70	42	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NEW YORK. . . . .	38	24	4.3	41.0	3.6	6.7	30.6	59.6	46.9	106.5	(0)	3.1	36.4
NEW JERSEY. . . . .	20	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.2	40.6
PENNSYLVANIA. . . . .	12	7	6.4	66.2	5.0	9.9	47.1	98.2	66.7	164.9	(0)	FF	(0)
NORTH CENTRAL REGION. . . . .	41	23	5.9	51.8	5.2	10.3	41.7	80.4	70.0	150.4	3.7	6.8	69.0
EAST NORTH CENTRAL DIVISION. . . . .	31	17	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
OHIO. . . . .	9	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
INDIANA. . . . .	3	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
ILLINOIS. . . . .	6	4	.3	3.5	.3	.5	2.9	4.5	2.7	7.2	.2	.2	2.5
MICHIGAN. . . . .	5	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
WISCONSIN. . . . .	6	5	1.2	8.2	1.1	2.2	6.2	11.1	8.2	19.2	1.7	1.1	11.2
WEST NORTH CENTRAL DIVISION. . . . .	10	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MISSOURI. . . . .	8	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
SOUTH REGION. . . . .	207	137	90.4	868.0	77.2	155.1	689.1	1 069.4	953.2	2 022.6	97.1	71.6	692.8
SOUTH ATLANTIC DIVISION. . . . .	80	44	39.4	385.7	33.8	68.3	319.2	505.9	285.0	790.8	39.6	39.9	396.0
MARYLAND. . . . .	9	5	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
VIRGINIA. . . . .	15	9	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
NORTH CAROLINA. . . . .	9	7	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
SOUTH CAROLINA. . . . .	2	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
GEORGIA. . . . .	1	1	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
FLORIDA. . . . .	44	20	4.1	36.1	3.7	7.9	30.9	56.2	29.5	85.8	14.4	5.5	60.0
EAST SOUTH CENTRAL DIVISION. . . . .	32	23	24.0	234.8	20.1	37.7	168.4	253.3	404.7	658.0	19.2	12.7	94.4
KENTUCKY. . . . .	3	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
TENNESSEE. . . . .	2	1	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ALABAMA. . . . .	10	8	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MISSISSIPPI. . . . .	17	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WEST SOUTH CENTRAL DIVISION. . . . .	95	70	27.0	247.5	23.3	49.1	201.5	310.3	263.5	573.8	38.3	19.0	202.4
LOUISIANA. . . . .	58	46	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	12.0	128.5
TEXAS. . . . .	37	24	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WEST REGION. . . . .	101	55	15.6	163.4	13.3	25.0	130.6	243.8	152.5	396.3	14.6	21.0	270.8
PACIFIC DIVISION. . . . .	101	55	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
WASHINGTON. . . . .	30	16	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	6.3	73.0
OREGON. . . . .	8	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.6	44.0
CALIFORNIA. . . . .	60	34	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	11.8	148.1
3732-- BOAT BUILDING AND REPAIRING													
UNITED STATES. . . . . E2	1 778	369	40.9	282.9	33.8	64.4	213.5	519.4	554.8	1 053.6	37.3	30.5	274.8
NORTHEAST REGION. . . . . E3	321	63	7.0	51.3	5.7	11.1	40.0	92.3	86.1	176.1	5.3	6.9	62.0
NEW ENGLAND DIVISION. . . . . E2	164	33	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.3	19.8
MAINE. . . . . E3	44	5	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	2.2
MASSACHUSETTS. . . . . E2	65	15	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.1	10.2
RHODE ISLAND. . . . . E2	19	6	.7	4.7	.6	1.1	4.0	8.2	9.1	16.9	.1	CC	(0)
CONNECTICUT. . . . . E1	29	5	.4	3.1	.3	.5	2.1	7.1	4.7	11.4	.5	.3	3.7
MIDDLE ATLANTIC DIVISION. . . . . E4	157	30	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.6	42.2
NEW YORK. . . . . E3	76	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
NEW JERSEY. . . . . E6	66	15	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.3	21.1
PENNSYLVANIA. . . . . E3	15	4	1.1	6.4	.7	1.3	4.9	11.2	12.7	24.4	.8	CC	(0)
NORTH CENTRAL REGION. . . . . E1	254	65	7.3	49.5	5.9	11.1	36.3	100.6	115.0	210.7	5.9	5.9	55.4
EAST NORTH CENTRAL DIVISION. . . . . E1	165	40	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
OHIO. . . . . E3	31	6	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
INDIANA. . . . . E1	27	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
ILLINOIS. . . . . E1	22	8	.6	3.4	.5	.8	2.4	7.6	9.5	15.4	.3	CC	(0)
MICHIGAN. . . . . E1	55	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.9	23.8
WISCONSIN. . . . . E1	30	6	.6	4.4	.5	1.0	3.0	10.1	11.7	21.0	1.4	88	(0)
WEST NORTH CENTRAL DIVISION. . . . . E1	89	25	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MINNESOTA. . . . . E3	35	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
MISSOURI. . . . . E1	26	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
KANSAS. . . . . E2	18	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
SOUTH REGION. . . . . E2	787	169	18.5	121.0	15.2	29.3	91.2	218.5	227.0	435.9	18.3	13.5	110.8
SOUTH ATLANTIC DIVISION. . . . . E2	469	96	10.1	68.9	8.3	15.9	51.7	124.8	123.2	239.5	12.6	8.4	67.1
MARYLAND. . . . . E7	58	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
VIRGINIA. . . . . E2	40	2	.4	3.1	.4	.7	2.0	5.4	4.8	10.4	.3	.5	4.3
NORTH CAROLINA. . . . . E1	37	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
SOUTH CAROLINA. . . . . E3	25	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
GEORGIA. . . . . E1	27	5	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
FLORIDA. . . . . E2	273	65	7.1	50.5	5.8	11.2	38.0	88.0	85.5	167.4	8.7	4.8	39.4
EAST SOUTH CENTRAL DIVISION. . . . . E2	107	26	2.6	16.2	2.2	4.2	13.1	30.9	32.9	62.6	2.0	1.6	14.4
KENTUCKY. . . . . E3	16	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
TENNESSEE. . . . . E1	55	16	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	8.7
ALABAMA. . . . . E6	27	5	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3732-- BOAT BUILDING AND REPAIRING--CON.</b>													
SOUTH REGION--CONTINUED													
WEST SOUTH CENTRAL DIVISION. . . E1	211	47	5.9	35.8	4.7	9.2	26.4	62.8	70.9	133.7	3.7	3.5	29.4
ARKANSAS . . . . .	22	10	1.2	7.7	.9	1.5	5.0	14.2	16.4	29.5	.8	.88	(D)
LOUISIANA . . . . .	72	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.6
OKLAHOMA . . . . .	18	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	99	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST REGION. . . . .	410	72	8.1	61.0	7.0	12.9	46.0	108.0	126.8	231.0	7.9	4.3	46.5
MOUNTAIN DIVISION. . . . .	36	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARIZONA . . . . .	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	380	69	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON . . . . .	100	19	2.5	19.0	2.2	4.5	15.3	31.0	46.9	76.3	4.2	EE	(D)
OREGON . . . . .	34	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	234	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	28.9
<b>3743-- RAILROAD EQUIPMENT</b>													
UNITED STATES. . . . .	163	103	50.8	529.1	38.4	72.7	371.9	1 113.3	1 341.2	2 446.2	55.3	(NA)	(NA)
NORTHEAST REGION. . . . .	40	22	19.8	199.7	14.3	26.2	130.8	384.6	437.2	808.3	22.7	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . .	38	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK . . . . .	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY . . . . .	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA . . . . .	26	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	79	51	23.7	257.0	18.3	35.2	187.9	585.5	635.5	1 233.4	19.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	63	39	19.5	219.6	15.2	29.4	159.4	557.5	512.9	1 046.4	18.0	(NA)	(NA)
OHIO . . . . .	11	9	2.8	28.2	2.2	4.2	22.0	49.2	43.3	91.6	6.2	(NA)	(NA)
INDIANA . . . . .	7	6	1.7	17.2	1.3	2.5	13.0	38.3	48.9	85.1	1.3	(NA)	(NA)
ILLINOIS . . . . .	35	18	13.1	156.2	10.2	20.0	112.5	443.2	382.8	804.4	10.1	(NA)	(NA)
MICHIGAN . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN . . . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	16	12	4.1	37.4	3.2	5.8	28.5	28.0	122.6	187.0	1.7	(NA)	(NA)
MINNESOTA . . . . .	3	2	.2	1.4	.1	.2	.8	2.8	1.5	4.3	(D)	(NA)	(NA)
MISSOURI . . . . .	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KANSAS . . . . .	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	31	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	14	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA . . . . .	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	5	2	.3	2.0	.2	.5	1.6	4.8	6.4	11.2	(Z)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON . . . . .	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
<b>3751-- MOTORCYCLES, BICYCLES, AND PARTS</b>													
UNITED STATES. . . . .	222	52	17.6	139.6	15.0	29.1	106.2	315.2	373.0	659.5	16.0	12.0	136.2
NORTHEAST REGION. . . . .	32	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	15.7
NEW ENGLAND DIVISION . . . . .	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS . . . . .	6	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT . . . . .	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . E1	21	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEW YORK . . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA . . . . .	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	51	17	7.6	68.7	6.2	11.7	49.6	148.3	165.3	305.7	8.0	4.9	65.5
EAST NORTH CENTRAL DIVISION. . .	38	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
OHIO . . . . .	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS . . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN . . . . .	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST NORTH CENTRAL DIVISION. . .	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEBRASKA . . . . .	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION. . . . .	32	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	45.5
SOUTH ATLANTIC DIVISION. . . . .	16	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
GEORGIA . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
EAST SOUTH CENTRAL DIVISION. . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
KENTUCKY . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
TENNESSEE . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WEST SOUTH CENTRAL DIVISION. . .	13	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ARKANSAS . . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3751-- MOTORCYCLES, BICYCLES, PARTS-- CONTINUED													
WEST REGION. . . . . E1	107	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	9.5
PACIFIC DIVISION. . . . . E1	97	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA. . . . . E1	90	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3792-- TRAVEL TRAILERS AND CAMPERS													
UNITED STATES. . . . . E2	1 033	388	37.3	267.5	31.2	58.1	196.9	481.6	887.5	1 347.1	35.5	(NA)	(NA)
NDRTHEAST REGION. . . . . E3	64	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . . E5	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . . E3	53	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YDRK. . . . . 7	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . . E4	43	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CENTRAL REGION. . . . . E1	352	148	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . . E1	233	110	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DHID. . . . . 21	21	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . . 119	119	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINDIS. . . . . ED	14	2	.2	1.2	.1	.3	.9	1.6	3.1	4.7	.1	(NA)	(NA)
MICHIGAN. . . . . E2	60	25	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . . E5	19	9	.5	3.2	.4	.8	2.4	5.5	9.2	14.2	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . . E3	119	38	3.1	18.2	2.5	4.5	12.4	32.0	65.0	94.9	2.7	(NA)	(NA)
MINNESOTA. . . . . E4	16	4	.2	1.4	.2	.3	1.0	2.4	5.4	7.8	.5	(NA)	(NA)
IDWA. . . . . E2	16	6	.4	2.8	.4	.7	2.0	4.9	7.8	12.7	(D)	(NA)	(NA)
MISSOURI. . . . . E4	30	8	.6	3.5	.5	.9	2.5	6.1	12.1	18.2	.5	(NA)	(NA)
KANSAS. . . . . E2	41	19	1.7	10.0	1.3	2.5	6.7	18.0	38.4	54.3	1.5	(NA)	(NA)
SDUTH REGION. . . . . E4	305	95	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SDUTH ATLANTIC DIVISION. . . . . E2	118	33	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND. . . . . 5	5	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VIRGINIA. . . . . E1	12	4	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NDRTH CAROLINA. . . . . E5	17	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SDUTH CAROLINA. . . . . E6	14	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . . E1	26	9	.5	3.0	.4	.8	2.1	6.3	15.9	22.0	.4	(NA)	(NA)
FLORIDA. . . . . E5	39	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SDUTH CENTRAL DIVISION. . . . . E6	58	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . . E4	20	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA. . . . . E9	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI. . . . . E6	7	4	.3	1.4	.2	.4	1.0	1.7	3.0	4.6	.1	(NA)	(NA)
WEST SDUTH CENTRAL DIVISION. . . . . E4	129	43	3.7	22.4	3.2	5.9	17.2	42.3	77.3	116.9	7.0	(NA)	(NA)
ARKANSAS. . . . . E7	16	4	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA. . . . . E1	24	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E4	83	28	2.4	15.3	2.1	3.9	11.6	28.9	53.9	80.8	6.0	(NA)	(NA)
WEST REGION. . . . . E2	312	122	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MOUNTAIN DIVISION. . . . . E2	93	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
IDAHO. . . . . E1	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO. . . . . E1	30	11	1.1	7.0	.9	1.7	4.4	11.4	16.7	27.8	(D)	(NA)	(NA)
NEW MEXICO. . . . . E8	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . . E3	22	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
UTAH. . . . . E1	9	4	.4	2.4	.4	.7	1.7	3.5	6.2	10.2	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E2	219	92	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DREGDN. . . . . 31	31	14	1.4	10.5	1.2	2.2	7.6	23.2	33.9	57.5	.6	(NA)	(NA)
CALIFORNIA. . . . . E2	177	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3795-- TANKS AND TANK COMPONENTS													
UNITED STATES. . . . .	22	15	5.9	65.0	4.6	9.0	46.9	111.7	150.1	272.2	3.1	(NA)	(NA)
3799-- TRANSPORTATION EQUIPMENT, NEC													
UNITED STATES. . . . .	501	192	16.1	117.2	13.4	25.2	82.0	232.8	434.3	654.6	16.9	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Ship building and repairing (SIC 3731)	Boat building and repairing (SIC 3732)	Railroad equipment (SIC 3743)	Motorcycles, bicycles, and parts (SIC 3751)	Travel trailers and campers (SIC 3792)	Tanks and tank components (SIC 3795)	Transportation equipment, n.e.c. (SIC 3799)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT .	98	97	92	81	92	95	93
COVERAGE RATIO <sup>2</sup> . . . . . DO . . . . .	98	96	95	95	94	77	74
ESTABLISHMENTS, TOTAL . . . . . NUMBER .	455	1 778	163	222	1 033	22	501
WITH 1 TO 19 EMPLOYEES. . . . . DO . . . . .	178	1 409	60	170	645	7	309
WITH 20 TO 99 EMPLOYEES . . . . . DO . . . . .	153	271	52	31	295	7	161
WITH 100 EMPLOYEES OR MORE. . . . . DO . . . . .	124	98	51	21	93	8	31
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000 .	144.6	40.9	50.8	17.6	37.3	5.9	16.1
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS .	1 422.3	282.9	529.1	139.6	267.5	65.0	117.2
PRODUCTION WORKERS:							
AVERAGE FOR YEAR. . . . . 1,000 .	117.7	33.8	38.4	15.0	31.2	4.6	13.4
MARCH . . . . . DO . . . . .	115.2	34.0	39.2	14.3	30.4	4.4	11.9
MAY . . . . . DO . . . . .	118.3	35.6	37.3	14.8	34.1	4.6	13.9
AUGUST . . . . . DO . . . . .	117.9	32.8	37.4	15.3	28.8	4.8	13.8
NOVEMBER . . . . . DO . . . . .	119.2	32.9	39.7	15.6	29.7	4.8	13.9
MAN-HOURS . . . . . MILLIONS .	233.4	64.4	72.7	29.1	58.1	9.0	25.2
JANUARY-MARCH . . . . . DO . . . . .	57.4	15.9	19.4	6.9	13.7	2.2	5.5
APRIL-JUNE . . . . . DO . . . . .	59.1	17.2	17.8	7.4	16.4	2.3	6.7
JULY-SEPTEMBER . . . . . DO . . . . .	58.5	15.3	17.2	7.3	14.5	2.3	6.6
OCTOBER-DECEMBER . . . . . DO . . . . .	58.4	16.0	18.3	7.5	13.5	2.3	6.4
WAGES . . . . . MILLION DOLLARS .	1 053.2	213.5	371.9	106.2	196.9	46.9	82.0
COST OF MATERIALS, ETC., TOTAL . . . . . DO . . . . .	1 399.7	554.8	1 341.2	373.0	887.5	150.1	434.3
MATERIALS, PARTS, CONTAINERS, ETC., CONSUMED . . . . . DO . . . . .	1 311.8	521.5	1 263.6	339.2	859.0	131.4	408.4
COST OF REALES . . . . . DO . . . . .	7.8	18.2	24.8	21.1	22.0	(D)	(D)
FUELS CONSUMED . . . . . DO . . . . .	8.9	3.3	8.3	1.7	2.3	.9	1.5
PURCHASED ELECTRIC ENERGY . . . . . DO . . . . .	20.4	4.2	9.5	2.6	3.2	1.1	2.0
CONTRACT WORK . . . . . DO . . . . .	50.6	7.6	35.1	8.4	.8	(D)	(D)
VALUE OF SHIPMENTS, INCLUDING REALES . . . . . DO . . . . .	3 281.0	1 053.6	2 446.2	659.5	1 347.1	272.2	654.6
VALUE OF REALES . . . . . DO . . . . .	9.9	21.7	35.6	27.2	23.3	(D)	(D)
VALUE ADDED BY MANUFACTURE . . . . . DO . . . . .	1 881.3	519.4	1 113.3	315.2	481.6	111.7	232.8
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . . DO . . . . .	547.9	171.9	464.8	96.6	126.2	46.5	94.5
FINISHED PRODUCTS . . . . . DO . . . . .	11.2	57.8	52.1	31.9	50.3	.7	31.0
WORK IN PROCESS . . . . . DO . . . . .	452.9	48.5	316.1	37.8	19.2	43.7	14.9
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .	83.8	65.6	96.6	26.9	56.7	2.2	48.6
END OF YEAR, TOTAL . . . . . DO . . . . .	721.3	211.0	459.4	128.8	162.6	35.8	113.5
FINISHED PRODUCTS . . . . . DO . . . . .	16.7	66.4	77.0	44.3	68.6	.6	40.4
WORK IN PROCESS . . . . . DO . . . . .	610.4	60.6	299.4	54.2	22.8	33.4	17.3
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .	94.2	84.1	82.8	30.3	71.2	1.8	55.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . . . . .	149.6	38.3	57.9	16.3	36.3	3.3	17.6
NEW PLANT AND EQUIPMENT, TOTAL . . . . . DO . . . . .	142.0	37.3	55.3	16.0	35.5	3.1	16.9
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . . . . .	59.8	17.0	17.4	4.3	15.2	.7	6.6
NEW MACHINERY AND EQUIPMENT . . . . . DO . . . . .	82.1	20.3	37.9	11.6	20.3	2.5	10.3
USED PLANT AND EQUIPMENT . . . . . DO . . . . .	7.6	1.0	2.6	.3	.8	.1	.7

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3731-- SHIP BUILDING AND REPAIRING											
ESTABLISHMENTS, TOTAL. . . . .	455	144.6	1 422.3	117.7	233.4	1 053.2	1 881.3	1 399.7	3 281.0	142.0	721.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	75	.1	1.1	.1	.2	.9	3.0	1.8	4.7	.2	1.1
5 TO 9 EMPLOYEES . . . . . E7	37	.3	2.1	.2	.4	1.6	4.0	2.2	6.2	.3	1.3
10 TO 19 EMPLOYEES . . . . . E2	66	1.0	8.0	.8	1.4	6.4	14.8	8.1	23.0	.6	4.1
20 TO 49 EMPLOYEES . . . . .	104	3.1	26.9	2.6	4.9	21.2	44.4	31.2	75.7	2.2	15.9
50 TO 99 EMPLOYEES . . . . .	49	3.5	32.3	3.0	5.8	25.4	49.0	29.9	78.9	2.9	11.6
100 TO 249 EMPLOYEES . . . . . E1	48	7.4	67.8	6.1	12.6	50.1	103.9	73.0	176.9	5.7	26.1
250 TO 499 EMPLOYEES . . . . .	33	11.5	102.2	9.9	19.9	78.9	161.5	113.9	275.4	7.9	61.6
500 TO 999 EMPLOYEES . . . . .	18	11.9	114.9	10.3	20.3	93.2	161.9	107.7	269.7	7.3	82.2
1,000 TO 2,499 EMPLOYEES . . . . .	17	28.0	272.3	24.1	47.5	217.7	378.8	261.9	640.7	59.9	217.1
2,500 EMPLOYEES OR MORE . . . . .	8	77.9	794.7	60.6	120.4	557.8	960.0	769.9	1 729.8	55.0	300.3
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	62	.2	1.4	.1	.2	1.0	2.9	1.8	4.7	.2	1.2

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)											
Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3732-- BDAT BUILDING AND REPAIRING											
ESTABLISHMENTS, TOTAL, . . . . . E2	1 778	40.9	282.9	33.8	64.4	213.5	519.4	554.8	1 053.6	37.3	211.0
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E9	918	1.6	10.1	1.6	2.4	7.6	21.4	22.4	44.0	1.4	10.3
5 TO 9 EMPLOYEES . . . . . E7	290	1.9	12.6	1.6	2.9	9.3	22.5	24.0	46.2	1.9	11.3
10 TO 19 EMPLOYEES . . . . . E4	201	2.8	19.1	2.3	4.2	14.2	32.6	32.3	63.7	2.8	12.1
20 TO 49 EMPLOYEES . . . . . E1	184	5.7	39.5	4.6	8.8	30.0	74.7	75.5	146.6	5.3	24.9
50 TO 99 EMPLOYEES . . . . . E2	87	6.1	44.5	5.1	9.5	33.0	78.4	77.8	151.4	7.3	26.7
100 TO 249 EMPLOYEES . . . . . E1	67	10.5	75.1	9.0	17.4	58.7	150.6	161.1	304.7	8.9	55.1
250 TO 499 EMPLOYEES . . . . .	24	8.0	56.0	6.5	12.8	41.6	87.8	113.3	199.4	6.7	48.6
500 TO 999 EMPLOYEES . . . . . E1	7	4.2	26.1	3.1	6.5	19.1	51.4	48.5	97.5	3.0	22.0
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	986	3.0	19.0	2.7	4.6	14.1	38.0	41.0	79.1	2.4	19.7
3743-- RAILROAD EQUIPMENT											
ESTABLISHMENTS, TOTAL, . . . . .	163	50.8	529.1	38.4	72.7	371.9	1 113.3	1 341.2	2 446.2	55.3	459.4
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E6	29	.1	.6	.1	.1	.4	1.0	1.3	2.6	.1	.4
5 TO 9 EMPLOYEES . . . . . E8	13	.1	.7	.1	.1	.5	1.2	1.8	3.0	(2)	.5
10 TO 19 EMPLOYEES . . . . . E1	18	.3	2.4	.2	.4	1.7	7.2	5.2	12.5	.2	1.5
20 TO 49 EMPLOYEES . . . . . E1	34	1.1	9.7	.9	1.7	7.0	19.3	22.5	42.3	1.9	6.7
50 TO 99 EMPLOYEES . . . . .	18	1.2	11.5	.9	1.7	7.4	24.6	28.3	53.4	2.0	9.2
100 TO 249 EMPLOYEES . . . . .	17	2.9	25.4	2.3	4.3	17.7	53.4	70.4	117.2	5.7	25.9
250 TO 499 EMPLOYEES . . . . .	10	3.3	32.6	2.6	4.9	24.0	69.4	96.9	156.5	1.9	39.9
500 TO 999 EMPLOYEES . . . . .	9	6.6	64.2	5.0	9.2	44.5	118.5	158.3	269.4	4.4	43.0
1,000 TO 2,499 EMPLOYEES . . . . .	12	35.1	382.1	26.2	50.2	268.6	818.6	956.5	1 789.5	39.2	332.4
2,500 EMPLOYEES OR MORE . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	22	.1	.7	.1	.1	.5	1.4	2.0	3.3	.1	.6
3751-- MOTORCYCLES, BICYCLES, AND PARTS											
ESTABLISHMENTS, TOTAL, . . . . .	222	17.6	139.6	15.0	29.1	106.2	315.2	373.0	659.5	16.0	128.8
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E9	112	.2	1.4	.2	.3	1.0	2.6	3.3	5.9	.1	1.3
5 TO 9 EMPLOYEES . . . . . E7	30	.2	1.3	.2	.3	.9	2.7	3.2	5.9	.1	1.3
10 TO 19 EMPLOYEES . . . . . E2	28	.4	3.0	.3	.6	2.0	5.2	6.5	11.7	.3	3.1
20 TO 49 EMPLOYEES . . . . . E2	20	.6	3.9	.5	.8	2.5	9.2	7.4	15.9	.4	2.5
50 TO 99 EMPLOYEES . . . . .	11	.7	5.1	.6	1.1	3.8	8.4	11.2	19.4	.4	3.6
100 TO 249 EMPLOYEES . . . . . E2	7	1.1	7.6	1.0	1.9	5.6	15.2	16.6	31.0	.7	5.6
250 TO 499 EMPLOYEES . . . . .	4	1.5	10.8	1.2	2.2	6.7	28.1	35.5	61.6	1.6	10.7
500 TO 999 EMPLOYEES . . . . .	4	2.3	17.0	2.0	4.1	12.6	34.3	36.1	69.3	2.9	18.9
1,000 TO 2,499 EMPLOYEES . . . . .	4	10.5	89.6	9.2	17.8	71.1	209.6	253.1	438.8	9.4	81.8
2,500 EMPLOYEES OR MORE . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	100	.3	1.9	.2	.4	1.4	3.4	4.4	7.8	.2	2.3
3792-- TRAVEL TRAILERS AND CAMPERS											
ESTABLISHMENTS, TOTAL, . . . . . E2	1 033	37.3	267.5	31.2	58.1	196.9	481.6	887.5	1 347.1	35.5	162.6
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . . E9	351	.6	4.0	.6	1.0	3.0	8.5	15.7	24.2	.9	2.0
5 TO 9 EMPLOYEES . . . . . E8	158	1.1	6.4	.9	1.7	4.7	11.7	21.9	33.5	.7	3.1
10 TO 19 EMPLOYEES . . . . . E5	136	1.9	11.6	1.6	3.0	8.5	21.5	37.6	58.6	1.9	5.3
20 TO 49 EMPLOYEES . . . . . E3	165	5.2	33.3	4.3	7.7	23.4	64.3	116.1	176.8	3.5	19.6
50 TO 99 EMPLOYEES . . . . . E3	130	9.3	63.0	7.8	14.6	45.9	117.2	204.2	316.4	10.5	36.8
100 TO 249 EMPLOYEES . . . . . E2	75	11.0	82.0	9.0	17.4	58.5	156.4	268.5	417.6	10.1	48.0
250 TO 499 EMPLOYEES . . . . .	14	4.6	35.3	3.7	6.8	25.2	62.6	113.6	173.1	3.7	26.3
500 TO 999 EMPLOYEES . . . . .	3	3.6	32.0	3.4	5.9	27.7	39.5	109.9	147.0	4.2	21.6
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	374	1.4	8.7	1.3	2.3	6.4	16.4	32.0	48.4	.7	3.9
3795-- TANKS AND TANK COMPONENTS											
ESTABLISHMENTS, TOTAL, . . . . .	22	5.9	65.0	4.6	9.0	46.9	111.7	150.1	272.2	3.1	35.8
ESTABLISHMENTS WITH AN AVERAGE DF-											
1 TO 4 EMPLOYEES . . . . .	1	(2)	.2	(2)	(2)	.1	.3	.5	.9	.4	.1
5 TO 9 EMPLOYEES . . . . . E4	4	(2)	.2	(2)	(2)	.1	.3	.5	.9	(0)	.1
10 TO 19 EMPLOYEES . . . . .	2	.1	1.4	.1	.2	1.0	3.1	1.9	5.0	(0)	.6
20 TO 49 EMPLOYEES . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
50 TO 99 EMPLOYEES . . . . . E2	3	.2	1.9	.2	.3	1.4	3.0	4.7	7.6	(0)	1.1
100 TO 249 EMPLOYEES . . . . .	2	.9	7.5	.6	1.2	5.6	11.0	8.6	19.7	2.8	3.2
250 TO 499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	4	4.7	54.0	3.7	7.3	39.0	94.3	134.4	239.0	(0)	30.7
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

See footnotes at end of table.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3799-- TRANSPORTATION EQUIPMENT, NEC											
ESTABLISHMENTS, TOTAL. . . . . E1	501	16.1	117.2	13.4	25.2	82.0	232.8	434.3	654.6	16.9	113.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	158	.3	2.0	.3	.5	1.5	4.5	6.8	11.3	.3	2.2
5 TO 9 EMPLOYEES . . . . . E6	67	.5	3.0	.4	.7	2.1	5.5	8.0	13.4	.4	2.6
10 TO 19 EMPLOYEES . . . . . E2	84	1.2	8.2	1.0	2.0	5.7	15.7	27.5	43.0	.8	7.0
20 TO 49 EMPLOYEES . . . . .	116	3.7	27.2	3.0	5.5	19.1	56.5	97.1	150.7	2.6	22.0
50 TO 99 EMPLOYEES . . . . . E1	45	3.2	23.4	2.6	5.3	17.1	46.7	76.0	121.6	2.5	19.0
100 TO 249 EMPLOYEES . . . . .	25	3.8	27.5	3.0	5.7	18.3	54.3	90.5	142.1	3.0	27.7
250 TO 499 EMPLOYEES . . . . .	4	3.4	25.8	2.9	5.6	18.4	49.0	128.3	172.3	7.3	33.2
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	93	.3	1.9	.3	.5	1.4	3.4	5.7	9.1	.2	1.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3731	SHIP BUILDING AND REPAIRING										
	ENTIRE INDUSTRY . . . . .	455	144.6	1 422.3	117.7	233.4	1 053.2	1 881.3	1 399.7	3 281.0	142.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	418	139.5	1 374.8	113.5	224.7	1 017.4	1 795.4	1 339.5	3 134.9	137.2
37311	NONPROPELLED SHIPS, NEW CONSTRUCTION (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	39	18.6	163.3	15.9	31.7	126.8	209.7	204.8	414.5	36.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	20	7.9	69.2	6.8	14.1	57.0	91.5	93.5	185.1	28.0
37312	SELF-PROPELLED SHIPS, U.S. MILITARY, NEW (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37313	SELF-PROPELLED SHIPS, NONMILITARY, NEW (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	111	42.0	398.9	34.6	71.7	305.4	572.1	425.5	997.6	34.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	74	18.6	179.0	15.4	31.6	137.8	286.1	223.1	509.2	15.3
37314	SHIP REPAIR, U.S. MILITARY (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	30	14.9	167.5	8.5	16.9	78.1	240.6	98.8	339.4	5.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	13	1.1	11.1	.9	2.0	8.9	15.0	12.6	27.5	.6
37316	REPAIR OF NONMILITARY SHIPS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	115	23.1	228.2	20.0	38.5	185.6	334.9	139.3	474.2	24.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	83	12.2	122.5	10.5	19.7	98.7	178.1	69.7	247.8	8.2

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3732	BOAT BUILDING AND REPAIRING										
	ENTIRE INDUSTRY . . . . .	1 778	40.9	282.9	33.8	64.4	213.5	519.4	554.8	1 053.6	37.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 755	34.2	269.6	32.3	61.6	202.8	492.4	530.2	1 002.5	36.1
37322	OUTBOARD MOTORBOATS, INCL. PREFAB. KITS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	116	9.4	55.8	7.2	13.8	40.6	103.9	122.2	223.0	6.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	89	6.3	38.5	5.1	9.4	28.0	73.6	81.0	150.9	4.0
37325	INBOARD MOTORBOATS, INBOARD-OUTORIVE HOUSEBOATS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	82	8.2	61.7	7.0	13.9	48.1	115.9	144.7	253.7	9.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	66	6.8	52.1	5.8	11.9	40.7	92.6	116.5	204.2	8.0
37326	INBOARD-OUTORIVE BOATS (EXCEPT HOUSEBOATS) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	30	3.8	24.4	3.2	6.2	18.6	52.0	67.5	117.3	1.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	18	1.4	10.1	1.2	2.6	7.8	18.5	30.9	47.8	.8
37327	ALL OTHER BOATS (SAILBOATS, ROWBOATS, ETC.) (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	103	5.6	39.2	4.7	9.1	29.0	70.3	67.4	134.5	5.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	86	4.9	33.7	4.1	7.8	24.7	60.5	56.5	114.2	4.5
37328	BOAT REPAIR (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	100	3.4	31.1	2.8	5.2	24.2	45.1	26.4	71.8	1.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	93	3.0	27.5	2.5	4.6	20.9	41.6	23.0	64.9	1.0
3743	RAILROAD EQUIPMENT										
	ENTIRE INDUSTRY . . . . .	163	50.8	529.1	38.4	72.7	371.9	1 113.3	1 341.2	2 446.2	55.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	120	46.3	487.1	35.3	67.4	346.4	1 042.0	1 272.1	2 309.0	53.8
37431	LOCOMOTIVES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	19	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	12	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37432	PASSENGER AND FREIGHT TRAIN CARS, NEW (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	26	17.0	169.7	13.8	25.9	131.5	331.2	600.0	919.4	16.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	23	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37433	STREET CARS, PARTS, ACCESS, FOR RAILROAD CARS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	60	13.5	126.9	10.2	18.2	89.0	176.9	238.3	443.2	13.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	50	9.6	91.0	7.4	13.7	66.9	119.1	174.8	322.7	12.1
3751	MOTORCYCLES, BICYCLES, AND PARTS										
	ENTIRE INDUSTRY . . . . .	222	17.6	139.6	15.0	29.1	106.2	315.2	373.0	659.5	16.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	209	12.9	101.4	11.0	20.8	77.8	230.3	266.2	480.9	12.6
37511	BICYCLES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	20	10.9	83.7	9.8	19.5	68.1	201.8	258.5	435.4	9.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	15	7.6	58.0	6.8	13.2	46.2	137.9	176.5	300.9	7.5
37512	MOTORCYCLES AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	47	4.1	35.9	3.2	5.8	25.7	73.1	69.2	140.4	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	41	3.9	34.5	3.0	5.4	24.6	71.1	65.4	134.7	3.1
3792	TRAVEL TRAILERS AND CAMPERS										
	ENTIRE INDUSTRY . . . . .	1 033	37.3	267.5	31.2	58.1	196.9	481.6	887.5	1 347.1	35.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	907	31.9	225.6	26.3	49.3	163.4	423.1	743.0	1 147.1	27.5
37921	RECREATION TYPE TRAILERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	160	17.2	127.8	14.4	26.7	94.3	246.9	454.6	688.6	15.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	120	11.2	84.6	9.3	17.6	62.6	169.1	302.0	460.7	9.6
37922	CAMPING TRAILERS, CAMPERS, AND PICKUP COVERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	147	8.4	65.1	7.1	13.3	47.1	98.6	177.5	268.4	6.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	117	5.0	36.1	4.2	7.7	24.6	64.4	102.4	161.4	2.9
3795	TANKS AND TANK COMPONENTS										
	ENTIRE INDUSTRY . . . . .	22	5.9	65.0	4.6	9.0	46.9	111.7	150.1	272.2	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	19	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3799	TRANSPORTATION EQUIPMENT, NEC										
	ENTIRE INDUSTRY . . . . .	501	16.1	117.2	13.4	25.2	82.0	232.8	434.3	654.6	16.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	470	13.7	100.6	11.4	21.3	70.4	203.8	382.9	575.2	15.6
37993	GOLF CARTS, SELF-PROPELLED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	4	.1	.7	.1	.2	.4	1.4	2.5	3.8	(2)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37994	SNOWMOBILES, SELF-PROPELLED (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	7	2.7	21.5	2.3	4.4	14.7	42.3	119.6	156.3	6.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
37999	OTHER TRANSPORTATION EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT) . . . . .	224	10.8	76.6	8.9	16.7	54.0	152.6	263.0	410.8	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	192	8.4	59.9	7.0	12.8	42.2	124.4	210.8	331.2	6.4

(D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through O and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
						Col. B Col. B & C				Col. B Col. F
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(million dollars)	(million dollars)	(million dollars)	(percent)
		A	B	C	D	E	F	G	H	I
3731	Ship building and repairing.....1972..	13,281.0	3,123.9	73.3	83.8	98	3,200.7	3,123.9	76.8	98
	.....1967..	12,518.2	2,314.6	129.0	74.6	95	2,357.9	2,314.6	43.3	98
3732	Boat building and repairing.....1972..	1,053.6	990.1	32.9	30.5	97	1,031.1	990.1	41.0	96
	.....1967..	571.4	521.6	21.6	28.2	96	570.8	521.6	49.2	91
3743	Railroad equipment.....1972..	2,446.2	2,151.3	188.5	106.4	92	2,284.2	2,151.3	132.9	95
	.....1967..	2,110.5	1,829.9	(NA)	(NA)	(NA)	1,943.5	1,829.9	113.6	94
3751	Motorcycles, bicycles, and parts.....1972..	659.5	513.6	117.8	28.1	81	540.6	513.6	27.0	95
	.....1967..	299.6	251.3	31.3	17.0	89	262.6	251.3	11.3	96
3792	Travel trailers and campers <sup>2</sup> .....1972..	1,347.1	1,202.8	110.6	33.7	92	1,276.5	1,202.8	73.7	94
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3795	Tanks and tank components.....1972..	272.2	219.9	10.9	41.4	95	285.1	219.9	65.2	77
	.....1967	394.1	312.1	54.3	27.7	85	409.3	312.1	97.2	76
3799	Transportation equipment, n.e.c. <sup>3</sup> .....1972..	654.6	581.2	43.7	29.7	93	781.6	581.2	200.4	74
	.....1967 <sup>3</sup>	284.4	257.7	16.5	10.2	94	342.2	257.7	84.5	75

(NA) Not available.

<sup>1</sup>Represents value of work done rather than value of shipments.

<sup>2</sup>New industry in 1972; no comparable historic data.

<sup>3</sup>These data are not fully comparable to 1972. (See text.)

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Ship building and repairing (SIC 3731)	Boat building and repairing (SIC 3732)	Railroad equipment (SIC 3743)	Motorcycles, bicycles, and parts (SIC 3751)	Travel trailers and campers (SIC 3792)	Tanks and tank components (SIC 3795)	Transpor- tation equipment, n.e.c. (SIC 3799)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	3,281.0	1,053.6	2,446.2	659.5	1,347.1	272.2	654.6	(X)
3731	Ship building and repairing.....	3,200.7	3,123.9	4.7	(under 2)	-	-	-	-	71.4
37311	Nonpropelled ships, new construction.....	361.9	360.6	-	-	-	-	-	-	1.3
37312	Self-propelled ships, U.S. military, new.....	1,100.0	1,046.2	(Z)	-	-	-	-	-	53.8
37313	Self-propelled ships, non- military, new.....	816.1	814.0	1.7	(under 2)	-	-	-	-	-
37314	Ship repair, U.S. military....	386.5	374.3	1.0	-	-	-	-	-	11.2
37316	Repair of nonmilitary ships...	484.2	476.8	2.0	(under 2)	-	-	-	-	5.1
37310	Ship building and repairing, n.s.k.....	52.1	52.1	-	-	-	-	-	-	-
3732	Boat building and repairing.....	1,031.1	14.5	990.1	-	-	(10-20)	-	-	(over 2)
37322	Outboard motor boats, includ- ing prefabricated kits.....	233.9	(under 2)	222.6	-	-	(over 2)	-	-	(under 2)
37325	Inboard motor boats, includ- ing inboard-outdrive bouse- boats.....	285.0	1.2	273.5	-	-	(Over 2)	-	-	-
37326	Inboard-outdrive boats (except houseboats).....	95.9	-	95.9	-	-	-	-	-	-
37327	All other boats (sailboats, rowboats, etc.).....	130.4	(under 2)	128.6	-	-	-	-	-	(under 2)
37328	Boat repair.....	74.3	12.6	59.7	-	-	-	-	-	2.0
37320	Boat building and repairing, n.s.k.....	211.6	(under 2)	209.5	-	-	-	-	-	(over 2)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Ship building and repairing (SIC 3731)	Boat building and repairing (SIC 3732)	Railroad equipment (SIC 3743)	Motorcycles, bicycles, and parts (SIC 3751)	Travel trailers and campers (SIC 3792)	Tanks and tank components (SIC 3795)	Transportation equipment, n.e.c. (SIC 3799)	Other industries
	Shipments and miscellaneous receipts—Continued									
3743	Railroad equipment.....	2,284.2	-	-	2,151.3	-	-	-	-	132.9
37431	Locomotives and parts.....	(D)	-	-	(D)	-	-	-	-	(50-100)
37432	Passenger and freight, train cars, new.....	(D)	-	-	(D)	-	-	-	-	(over 2)
37433	Streetcars, parts and accessories for railroad cars.....	501.2	-	-	481.1	-	-	-	-	(20-50)
37430	Railroad equipment, n.s.k.....	23.6	-	-	23.6	-	-	-	-	-
3751	Motorcycles, bicycles, and parts.....	540.6	-	-	-	513.6	-	-	2.7	24.3
37511	Bicycles and parts.....	396.8	-	-	-	385.4	-	-	-	11.4
37512	Motorcycles and parts.....	112.3	-	-	-	99.4	-	-	-	12.9
37510	Bicycles, motorcycles, motor-scooters, and parts, n.s.k.....	31.5	-	-	-	28.8	-	-	2.7	-
3792	Travel trailers and campers.....	1,276.5	-	(under 2)	-	-	1,202.8	-	(over 2)	68.5
37921	Recreation type trailers.....	619.9	-	-	-	-	588.5	-	-	31.4
37922	Camping trailers, camper and pickup covers.....	273.3	-	(under 2)	-	-	242.5	-	(over 2)	25.6
37920	Travel trailers and campers, n.s.k.....	383.3	-	-	-	-	371.8	-	-	11.5
37950	Tanks and tank components.....	285.1	-	-	-	-	-	219.9	-	65.2
3799	Transportation equipment, n.e.c.....	781.6	-	16.6	(under 2)	44.2	42.0	-	581.2	97.3
37993	Golf carts, self-propelled....	54.1	-	-	-	33.0	-	-	7.9	13.2
37994	Snowmobiles, self-propelled....	203.1	-	(over 2)	-	(over 2)	-	-	151.9	42.1
37999	Other transportation equipment.....	459.5	-	(over 2)	(under 2)	(over 2)	42.0	-	357.1	41.4
37990	Transportation equipment, n.e.c., n.s.k.....	64.9	-	-	-	-	-	-	64.3	.6
	Other product shipments by 4-digit product group:									
2329	Men's and boys' clothing, n.e.c.....	(X)	-	-	-	-	-	-	(2-5)	(X)
2451	Mobile homes.....	(X)	-	-	-	-	15.2	-	(under 2)	(X)
2531	Public building and related furniture.....	(X)	-	-	-	(5-10)	-	-	(under 2)	(X)
3317	Steel pipe and tubes.....	(X)	(under 2)	-	-	(5-10)	-	-	-	(X)
3321	Gray iron foundries.....	(X)	(under 2)	-	(2-5)	-	-	-	(under 2)	(X)
3325	Steel foundries, n.e.c.....	(X)	(under 2)	-	(2-5)	-	-	(2-5)	-	(X)
3423	Hand and edge tools, n.e.c.....	(X)	-	-	-	-	-	-	3.1	(X)
3441	Fabricated structural metal... shops).....	(X)	7.8	(under 2)	(10-20)	-	-	-	(under 2)	(X)
3443	Fabricated platework (boiler	(X)	3.1	-	2.7	-	-	-	-	(X)
3444	Sheet metalwork.....	(X)	-	-	-	-	-	-	4.1	(X)
3446	Architectural metalwork.....	(X)	(2-5)	-	-	-	-	-	-	(X)
3462	Iron and steel forgings.....	(X)	-	-	(2-5)	-	-	(under 2)	-	(X)
3494	Valves and pipe fittings.....	(X)	(2-5)	-	-	-	-	-	(under 2)	(X)
3511	Turbines and turbine generator sets.....	(X)	(5-10)	-	(2-5)	-	-	-	-	(X)
3519	Internal combustion engines, n.e.c.....	(X)	(under 2)	-	(20-50)	-	-	-	-	(X)
3523	Farm machinery and equipment..	(X)	-	-	-	-	6.1	(under 2)	1.9	(X)
3524	Lawn and garden equipment.....	(X)	-	-	-	(20-50)	(under 2)	-	(under 2)	(X)
3531	Construction machinery.....	(X)	(5-10)	(under 2)	(20-50)	-	-	-	3.8	(X)
3532	Mining machinery.....	(X)	(2-5)	-	(under 2)	-	-	-	-	(X)
3533	Oil field machinery.....	(X)	(5-10)	-	(10-20)	-	-	-	-	(X)
3535	Conveyors and conveying equipment.....	(X)	(2-5)	-	-	-	-	-	(under 2)	(X)
3537	Industrial trucks and tractors.....	(X)	(2-5)	-	(5-10)	-	-	-	(under 2)	(X)
3554	Paper industries machinery....	(X)	(2-5)	-	(under 2)	-	-	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	(2-5)	-	(under 2)	-	-	-	-	(X)
3561	Pumps and pumping equipment...	(X)	(under 2)	-	(2-5)	-	-	-	(under 2)	(X)
3621	Motors and generators.....	(X)	-	-	(50-100)	-	-	-	-	(X)
3713	Truck and bus bodies.....	(X)	-	(under 2)	-	-	29.6	(2-5)	(under 2)	(X)
3714	Motor vehicle parts and accessories.....	(X)	-	-	(under 2)	(under 2)	(under 2)	(under 2)	(2-5)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	(under 2)	(under 2)	(2-5)	-	-	-	-	(X)
3944	Games, toys, and children's vehicles.....	(X)	-	-	-	(10-20)	-	-	-	(X)
	Miscellaneous receipts, total...	(X)	83.8	30.5	106.4	28.1	33.7	41.4	29.7	(X)
93000 00	Contract work.....	(X)	13.5	2.6	11.8	-	(under 2)	.6	(under 2)	(X)
99980 13	Sales of scrap and refuse.....	(X)	(over 2)	(under 2)	16.0	(X)	(X)	(under 2)	(under 2)	(X)
99980 41	Receipts for research and development work.....	(X)	(over 2)	(under 2)	(X)	(X)	(X)	(over 2)	(X)	(X)
99980 61	Receipts for repair work.....	(X)	(X)	(X)	20.1	(X)	(X)	(X)	(X)	(X)
99980 98	Other miscellaneous receipts..	(X)	28.5	5.5	22.9	.9	(over 2)	(over 2)	5.7	(X)
99989 00	Resales.....	(X)	9.9	21.7	35.6	27.2	23.3	(over 2)	(over 2)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products—Continued	
3731	3531 Construction machinery.....	(2-5)	3792	2451 Mobile homes.....	8.2
	3561 Pumps and pumping equipment.....	(5-10)		3713 Truck and bus bodies.....	39.7
	3662 Radio and TV communication equipment.....	(over 2)		3714 Motor vehicle parts and accessories.....	(5-10)
	3761 Guided missiles and space vehicles.....	(over 2)			
3743	3321 Gray iron foundries.....	(2-5)	3795	3069 Fabricated rubber products, n.e.c.....	(2-5)
	3494 Valves and pipe fittings.....	(2-5)		3585 Refrigeration and heating equipment.....	(2-5)
	3499 Fabricated metal products, n.e.c.....	(2-5)		3662 Radio and TV communication equipment.....	(5-10)
	3531 Construction machinery.....	(2-5)		3711 Motor vehicles and car bodies.....	(5-10)
	3532 Mining machinery.....	(2-5)		3724 Aircraft engines and engine parts.....	(10-20)
	3559 Special industry machinery, n.e.c.....	(2-5)	3799	2394 Canvas and related products.....	(2-5)
	3568 Power transmission equipment, n.e.c.....	(5-10)		3444 Sheet metalwork.....	(5-10)
				3469 Metal stampings, n.e.c.....	(over 2)
	3714 Motor vehicle parts and accessories.....	(2-5)		3519 Internal combustion engines, n.e.c.....	(over 2)
	3721 Aircraft.....	(2-5)		3523 Farm machinery and equipment.....	13.7
	3724 Aircraft engines and engine parts.....	(over 2)		3524 Lawn and garden equipment.....	(10-20)
	3728 Aircraft equipment, n.e.c.....	(over 2)		3537 Industrial trucks and tractors.....	(over 2)
3751	3524 Lawn and garden equipment.....	9.3		3713 Truck and bus bodies.....	(2-5)
	3562 Ball and roller bearings.....	(over 2)		3714 Motor vehicle parts and accessories.....	(2-5)
	3569 General industrial machinery, n.e.c.....	(over 2)		3715 Truck trailers.....	4.1
	3714 Motor vehicle parts and accessories.....	(5-10)		3944 Games, toys, and children's vehicles.....	(5-10)
				3949 Sporting and athletic goods, n.e.c.....	(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	1972		1967	
			Quantity	Value	Quantity	Value
				(million dollars)		(million dollars)
			Total value of work done <sup>1</sup>			
3731- --	SHIP BUILDING AND REPAIRING, TOTAL <sup>2</sup> .....		(X)	3,200.7	(X)	2,357.9
37311 --	Nonpropelled Ships, New Construction.....		(X)	361.9	(X)	149.0
37311 11	Military, including hopper barges, tank barges, covered cargo barges, deck barges, dredges, car floats, etc.....	Number.....	52	1.7	40	5.1
	Nonmilitary:					
37311 21	Hopper barges.....	...do.....	703	66.6	495	35.7
37311 31	Tank barges.....	...do.....	100	38.2	318	43.9
37311 41	Covered cargo barges.....	...do.....	1,046	129.4	153	14.4
37311 51	Deck barges.....	...do.....	154	12.2	285	27.0
37311 61	Dredges.....	...do.....	}	(NA)	188	22.9
37311 71	Car floats.....	...do.....				
37311 75	Drilling platforms.....	...do.....				
37311 81	Other nonmilitary nonpropelled vessels.....	...do.....				
37311 00	Nonpropelled ships, new construction, n.s.k.....		(X)	7.0	(X)	-
37312 11	Self-Propelled Ships, New Construction, U.S. Military (Including Combat Ships, Troop Transport Vessels, Fleet Auxiliaries, Service Craft, Etc.).....		(X)	1,100.0	(X)	973.8
37313 --	Self-Propelled Ships, Nonmilitary, New Construction.....		(X)	816.1	(X)	361.8
	Yachts:					
37313 13	Under 65 ft. in length.....	Number.....	}	1,214	652	30.0
37313 15	65 ft. and over in length (requiring professional crew as specified by Coast Guard).....	...do.....				
37313 23	Passenger ships.....	...do.....				
37313 25	Dry cargo ships, passenger-cargo, and tankers.....	...do.....				
37313 27	Towboats, tugboats, tender vessels, commercial sailing vessels, ferryboats, fireboats, etc.....	...do.....	1,562	176.7	}	(NA)
37313 00	Self-propelled ships, nonmilitary, new construction, n.s.k.....		(X)	1.8		
37314 --	Ship Repair, U.S. Military.....		(X)	386.5	(X)	423.0
	Military Sea Transportation Service:					
37314 21	Conversions and reconversions.....		(X)	31.3	(X)	43.7
37314 29	All other repairs.....		(X)	69.9	(X)	123.4
	All others:					
37314 31	Conversions and reconversions.....		}	(X)	(X)	111.8
37314 39	All other repairs.....					
37314 00	Ship repair, U.S. Military, n.s.k.....		(X)	3.4	(X)	-
37316 --	Repair of Nonmilitary Ships.....		(X)	484.2	(X)	407.2
	Maritime Administration:					
37316 13	Conversions and reconversions.....		}	(X)	(X)	12.0
37316 19	All other repairs.....					
	All others:					
37316 53	Conversions and reconversions.....		(X)	69.5	(X)	91.9
37316 59	All other repairs.....		(X)	357.2	(X)	243.6
37316 00	Repair of nonmilitary ships, n.s.k.....		(X)	5.3	(X)	1.1
37310 00	Ship building and repairing, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	47.4	(X)	39.2
37310 02	Ship building and repairing, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.7	(X)	4.0
			Total product shipments including interplant transfers			
3732- --	BOAT BUILDING AND REPAIRING, TOTAL.....		(X)	1,031.1	(X)	570.8
37322 --	Outboard Motorboats, Including Prefabricated Kits.....		(X)	233.9	(X)	70.2
	Runabouts:					
	13 ft. 5 in. and under in length: <sup>3</sup>					
37322 21	Wood.....	Number.....	}	68,392	56,360	4.2
37322 31	Metal.....	...do.....				
37322 41	Plastic (reinforced).....	...do.....				
	13 ft. 6 in. to 15 ft. 5 in. in length: <sup>3</sup>					
37322 23	Wood.....	...do.....	}	30,626	28,960	3.1
37322 33	Metal.....	...do.....				
37322 43	Plastic (reinforced).....	...do.....				

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3732- --	BOAT BUILDING AND REPAIRING—Continued					
37322 --	Outboard Motorboats, Including Prefabricated Kits—Continued					
	Runabouts:					
	15 ft. 6 in. to 17 ft. 5 in. in length: <sup>3</sup>					
37322 25	Wood.....	Number.....	15,688	9.3	733	.6
37322 35	Metal.....	do.....				
37322 45	Plastic (reinforced).....	do.....				
	17 ft. 6 in. and over in length: <sup>3</sup>					
37322 26	Wood.....	do.....	3,612	6.8	744	1.2
37322 36	Metal.....	do.....				
37322 46	Plastic (reinforced).....	do.....				
	Utility:					
37322 27	Wood.....	do.....	54,411	13.3	18,338	9.4
37322 37	Metal.....	do.....				
37322 47	Plastic (reinforced).....	do.....				
	Cabin cruisers:					
37322 28	Wood.....	do.....	648	4.4	88	.3
37322 38	Metal.....	do.....	431	1.8	323	.7
37322 48	Plastic (reinforced).....	do.....	1,563	7.1	765	2.5
37322 51	Prefabricated boat construction kits.....	do.....	1,168	4.9	( <sup>4</sup> )	( <sup>4</sup> )
37322 00	Outboard motorboats, n.s.k.....		(X)	20.5	(X)	3.7
37325 --	Inboard Motorboats, Including Inboard-Outdrive Houseboats <sup>5</sup> .....		(X)	285.0	(X)	188.8
37325 11	Military (specially designed for the Army, Navy, or Coast Guard). Nonmilitary powered boats (excluding houseboats, sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits):	Number.....	( <sup>7</sup> )	( <sup>7</sup> )	(NA)	21.2
37325 31	Runabouts (wood, metal, plastic reinforced).....	do.....	10,711	21.7	1,376	5.1
	Cabin cruisers:					
	Wood:					
37325 41	Under 26 ft. in length.....	do.....	2,665	12.2	960	4.8
37325 43	26 ft. or over but less than 40 ft. in length.....	do.....				
37325 45	40 ft. and over in length.....	do.....				
	Metal:					
37325 51	Under 26 ft. in length.....	do.....	661	13.8	172	1.2
37325 53	26 ft. or over but less than 40 ft. in length.....	do.....				
37325 55	40 ft. and over in length.....	do.....				
	Plastic (reinforced):					
37325 61	Under 26 ft. in length.....	do.....	27,264	105.6	13,442	37.7
37325 63	26 ft. or over but less than 40 ft. in length.....	do.....	3,090	55.8	1,378	21.2
37325 65	40 ft. and over in length.....	do.....	197	16.1	158	5.9
	Houseboats, inboard and inboard-outdrive:					
37325 67	Under 40 ft. in length.....	do.....	1,098	11.2	( <sup>6</sup> )	( <sup>6</sup> )
37325 68	40 ft. and over in length.....	do.....	284	7.4	( <sup>6</sup> )	( <sup>6</sup> )
37325 00	Inboard motorboats, including inboard-outdrive houseboats, n.s.k.		(X)	737.3	(X)	4.2
37326 --	Inboard-Outdrive Boats, Except Houseboats <sup>5</sup> .....		(X)	95.9	(X)	70.2
37326 73	Under 20 ft. in length.....	Number.....	16,599	56.7	17,601	44.6
37326 75	20 ft. and over in length.....	do.....	6,815	39.2	6,882	25.6
37327 --	All Other Boats (Sailboats, Rowboats, Canoes, Etc.).....		(X)	130.4	(X)	45.6
37327 13	Sailboats.....	Number.....	39,375	84.6	46,603	32.9
	Other boats:					
37327 15	Aluminum.....	do.....	128,527	17.0	58,521	11.7
37327 17	All other boats, including rowboats, canoes, skiffs, dinghies, lifeboats, pontoon boats, etc.....	do.....	62,438	24.3		
37327 00	All other boats, n.s.k.....		(X)	4.5	(X)	.9
37328 --	Boat Repair.....		(X)	74.3	(X)	82.2
37328 11	Repair of U.S. Military boats (Army, Navy, and Coast Guard boats).		(X)	15.7	(X)	31.5
37328 21	Repair of nonmilitary boats (all other boats).....		(X)	55.3	(X)	48.7
37328 00	Boat repair, n.s.k.....		(X)	3.3	(X)	1.9
37320 00	Boat building and repairing, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	133.0	(X)	72.2
37320 02	Boat building and repairing, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	78.6	(X)	41.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972			1967		
		Quantity	Weight	Value	Quantity	Weight	Value
		(units)	(1,000 short tons)	(million dollars)	(units)	(1,000 short tons)	(million dollars)
3743- --	RAILROAD EQUIPMENT, TOTAL <sup>8</sup> .....	(X)	(X)	2,284.2	(X)	(X)	1,943.6
37431 --	Locomotives and Parts.....	(X)	(D)	(D)	(X)	(X)	569.1
37431 44	Diesel-electric, including both new and rebuilt.....	}	(D)	(D)	1,418	182.9	310.3
37431 46	Other, including both new and rebuilt but excluding mining and industrial types.....						
	Mining type, including rebuilt:						
37431 60	As reported in the census of manufactures.....	(X)	(X)	18.4	(X)	2.0	5.5
	As reported in Current Industrial Reports Series MA-35F <sup>9</sup> .....	(X)	(X)	18.4	220	(X)	5.0
37431 13	Electric.....	}	(X)	18.4	56	(X)	2.6
37431 14, 15	Other (battery and diesel).....				164	(X)	2.5
37431 71	Parts for locomotives, for sale separately (except wheels), including tenders, locomotive air brakes, repair parts, locomotive stokes, lubricating systems, super heaters, etc....	(X)	(X)	395.8	(X)	(X)	248.0
37431 61	Industrial-type locomotives, including both new and rebuilt.....	}	(D)	(D)	77	2.8	4.1
37431 00	Locomotives and parts, n.s.k.....				(X)	(X)	1.2
37432 --	Passenger and Freight Train Cars, New.....	(X)	(X)	(D)	(X)	(X)	1,026.5
	Passenger train cars, new:						
37432 05	Coach, excluding coach combination.....	}	(D)	(D)	72	(X)	6.4
37432 09	Other passenger train cars, including postal, postal-non- passenger combination, express refrigeration and milk, self- propelled passenger and combination passenger baggage cars, railmotor and multiple-unit electric cars, etc.....						
	Freight train cars, new:						
37432 11	Box.....	14,931	480.8	289.4	18,558	(NA)	316.7
37432 15	Flat.....	3,129	103.4	56.2	5,572	(NA)	90.3
37432 25	Gondola.....	3,658	66.2	60.8	5,836	(NA)	79.5
	Hopper, covered:						
37432 28	Steel.....	}	(NA)	192.6	(NA)	(NA)	(NA)
37432 32	Aluminum.....				3,710	(NA)	59.2
37432 34	Other.....				19,068	(NA)	271.5
	Hopper, uncovered:						
37432 36	Aluminum.....	-	-	-	1,817	(NA)	23.3
37432 38	Other.....	6,060	183.9	98.9			
37432 41	Tank.....	4,412	(NA)	96.9	8,529	(X)	179.6
37432 43	Refrigerator.....	-	-	-			
37432 45	Caboose.....	-	-	-			
37432 59	Other freight train cars, including industrial rail cars not suitable for use on common carriers.....	567	(NA)	11.7			
37432 00	Passenger and freight train cars, new, n.s.k.....	(X)	(X)	2.9	(X)	(X)	(NA)
37433 --	Streetcars, Parts and Accessories for Railroad Cars and Street- cars, and Rebuilt Passenger and Freight Train Cars.....	(X)	(X)	501.2	(X)	(X)	340.4
37433 13	Other cars, including railroad equipment, street, subway, rapid transit, interurban cars, trolleybuses, and self-propelled cars.	}	(X)	457.4	(X)	(X)	97.1
37433 21	Parts and accessories for passenger and freight train cars, and street, rapid transit, and interurban cars (except wheels), for sale separately.....				(X)	(X)	212.5
	Rebuilt passenger and freight train cars: <sup>10</sup>						
37433 31	Rebuilt passenger train cars.....	}	(NA)	34.9	(NA)	(X)	30.8
37433 51	Rebuilt freight train cars.....						
37433 00	Streetcars, parts and accessories for railroad cars and street- cars, and rebuilt passenger and freight train cars, n.s.k.....	(NA)	(NA)	8.9	(NA)	(X)	(NA)
37430 00	Railroad and streetcars, n.s.k., for establishments with 10 employees or more. (See note.).....	(X)	(X)	20.3	(X)	(X)	7.1
37430 02	Railroad and streetcars, n.s.k., for establishments with less than 10 employees. (See note.).....	(X)	(X)	3.3	(X)	(X)	.5

1972 product code	Product	1972			1967	
		Quantity	Weight	Value <sup>11</sup>	Quantity	Value <sup>11</sup>
		(units)	(1,000 short tons)	(million dollars)	(units)	(million dollars)
3743- --	RAILROAD EQUIPMENT, TOTAL <sup>12</sup> .....	7,376	(NA)	127.3	31,595	324.4
37431 --	Locomotives and Parts:					
37431 44	Diesel-electric, including both new and rebuilt.....	112	13.6	20.0	}	(D)
37431 46	Other, including both new and rebuilt but excluding mining and industrial types.....	-	-	-		
37431 60	Mining type, including rebuilt.....	-	-	-		
37431 61	Industrial-type locomotives, including both new and rebuilt.....	-	-	-		
37431 71	Parts for locomotives, for sale separately (except wheels), including tenders, locomotive air brakes, repair parts, locomotive stokes, lubrication systems, super heaters, etc....	-	-	-		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972			1967	
		Quantity	Weight	Value	Quantity	Value <sup>11</sup>
		(units)	(1,000 short tons)	(million dollars)	(units)	(million dollars)
3743- --	RAILROAD EQUIPMENT—Continued					
37432 --	Passenger and Freight Train Cars, New.....	(X)	(X)	(D)	(X)	(D)
	Freight train cars, new:					
37432 11	Box.....	1,214	42.0	21.9	4,909	85.4
37432 15	Flat.....	-	-	-	1,867	21.6
37432 25	Gondola.....	3,123	104.9	45.6	1,299	17.2
	Hopper, covered:					
37432 28	Steel.....	-	-	-	(14)	(14)
37432 32	Aluminum.....	-	-	-		
37432 34	Other.....	(13)	(13)	(13)		
	Hopper, uncovered:					
37432 36	Aluminum.....	-	-	-	6,516	71.8
37432 38	Other.....	(13)	(13)	(13)		
37432 43	Refrigerator.....	(13)	(13)	(13)		
37432 45	Caboose.....	(13)	(13)	(13)	(14)	(14)
37433 --	Streetcars, Parts and Accessories for Railroad Cars and Streetcars, and Rebuilt Passenger and Freight Train Cars.....	(X)	(X)	(D)	(X)	(D)
37433 13	Other cars, including railroad equipment, street, subway, rapid transit, interurban cars, trolley buses and self-propelled cars.	(13)	(13)	(13)	<sup>14</sup> 1,206	<sup>14</sup> 17.8
37433 21	Parts and accessories for passenger and freight train cars, and street, rapid transit, and interurban cars (except wheels), for sale separately.....	-	-	-	(NA)	(NA)
	Rebuilt passenger and freight train cars:					
37433 31	Rebuilt passenger train cars.....	-	-	-	(14)	(14)
37433 51	Rebuilt freight train cars.....	<sup>13</sup> 2,927	(NA)	<sup>13</sup> 39.8	15,798	110.6
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3751- --	MOTORCYCLES, BICYCLES, AND PARTS, TOTAL <sup>15</sup> .....		(X)	540.6	(X)	226.3
37511 --	Bicycles and Parts.....		(X)	396.8	(X)	176.6
37511 61	Bicycles, complete (excluding children's 2-wheel sidewalk cycles with semipneumatic tires).....	1,000 units...	8,467.0	341.0	4,871.2	143.5
37511 71	Parts for bicycles, including frame sets (including motorbike parts which are interchangeable with bicycle parts).....		(X)	55.8	(X)	33.1
37512 --	Motorcycles and Parts.....		(X)	112.3	(X)	45.5
37512 13	Motorcycles, including 3-wheel (excluding sidecars); trail vehicles; motorscooters; and motorbikes.....	1,000 units...	183.3	79.4	44.5	33.3
37512 53	Parts for motorcycles (including sidecars), trail vehicles, motorbikes, and motorscooters, including bicycle engines (excluding motorbike parts which are interchangeable with bicycle parts).....		(X)	32.9	(X)	12.2
37510 00	Motorcycles, bicycles, and parts, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	23.9	(X)	2.0
37510 02	Motorcycles, bicycles, and parts, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	7.6	(X)	2.3
3792- --	TRAVEL TRAILERS AND CAMPERS, TOTAL.....		(X)	1,276.5	(X)	400.8
37921 --	Recreation Type Trailers.....		(X)	619.9	(X)	186.6
	Under 35 ft. in length:					
37921 31	11 ft. to 15 ft. 11 in. in length.....	1,000 units...	56.0	75.3	27.5	31.3
37921 33	16 ft. to 24 ft. 11 in. in length.....	...do.....	136.9	329.7	47.7	104.8
37921 35	25 ft. to 34 ft. 11 in. in length.....	...do.....	48.4	214.9	<sup>16</sup> 12.5	<sup>16</sup> 50.5
37922 --	Camping Trailers, Campers, and Pickup Covers.....		(X)	273.3	(X)	115.6
37922 41	Collapsible camping trailers and travel trailers less than 11 ft. in length, complete units.....	1,000 units...	88.1	102.5	66.8	46.2
37922 43	Pickup campers (for sliding on and off trucks).....	...do.....	71.8	109.2	61.6	69.4
37922 45	Truck mounted campers (for bolting onto frame of trucks with cab). ...do.....	...do.....	10.6	39.9		
37922 47	Pickup box covers or caps of reinforced plastic or aluminum with windows and/or doors.....	...do.....	97.2	21.7		
37920 00	Travel trailers and campers, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	<sup>17</sup> 334.9	(X)	<sup>17</sup> 83.1
37920 02	Travel trailers and campers, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	<sup>17</sup> 48.4	(X)	<sup>17</sup> 15.5

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972	1967			
3795- --	TANKS AND TANK COMPONENTS, TOTAL.....	285.1	409.3			
37950 11	Tanks and Parts:	285.1	409.3			
37950 15	Medium and heavy.....					
	Light.....					
37950 51	Self-propelled weapons and parts.....					
37950 98	Other full tracked combat vehicles and parts, including armored utility vehicles.....					
37950 00	Tanks and tank components, n.s.k., for establishments with 10 employees or more.....					
37950 02	Tanks and tank components, n.s.k., for establishments with less than 10 employees.....					
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3799- --	TRANSPORTATION EQUIPMENT, N.E.C., TOTAL.....		(X)	781.6	(X)	267.9
37993 81	Self-Propelled Golf Carts, Electric and Gasoline Powered, for Carrying Passengers and/or Industrial In-Plant Personnel Carriers <sup>18</sup> .	1,000 units...	55.2	54.1	38.9	36.3
37994 93	Self-Propelled Snowmobiles, Electric and Gasoline Driven, Ski- Supported.....	...do.....	248.0	203.1	48.0	36.3
37999 --	Other Transportation Equipment.....		(X)	459.5	(X)	161.6
37999 31	Automobile trailers, complete units, n.e.c., excluding housing type trailers (commercial display, utility, camp, etc.).....	1,000 units...	99.2	100.0	43.0	37.3
37999 35	Chassis for automobile trailers, sold separately.....	...do.....	52.5	25.0	(NA)	13.4
37999 51	Handcarts and pushcarts, including parts and attachments.....		(X)	16.7	(X)	6.9
37999 53	Wheelbarrows.....	1,000 units...	573.2	17.9	(NA)	10.3
37999 91	Boat trailers.....	...do.....	274.7	58.1	238.1	34.2
37999 95	All-terrain vehicles, gasoline or electric driven, for transport of people or goods designed to traverse all types of terrain (off-the-highway, operating on flotation type wheels or full tracks).....	...do.....	(NA)	12.7	} (NA)	49.2
37999 98	Other miscellaneous transportation equipment.....	...do.....	(NA)	225.5		
37999 00	Other transportation equipment, n.s.k.....	...do.....	(X)	3.6		
37990 00	Transportation equipment, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	55.8	(X)	22.8
37990 02	Transportation equipment, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	9.1	(X)	10.9

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>For this industry, value of work done is reported rather than value of shipments. However, the values for product codes 37311 11 through 37311 81 represent value of shipments.

<sup>2</sup>Excludes products manufactured or repaired by facilities operated by the Department of Defense, and at Federal, District of Columbia, and State prisons.

<sup>3</sup>In 1967, the separation by length was based on the following sizes: 13'6" and under, 13'7" to 15'6", 15'7" to 17'6", and 17'7" and over.

<sup>4</sup>For 1967, prefabricated boat construction kits are included with utility boats.

<sup>5</sup>The product class structure for this industry was revised effective in 1972.

<sup>6</sup>In 1967, inboard-outdrive houseboats were included in product codes 37326 73 and 37326 75.

<sup>7</sup>Data for product code 37325 11 are combined with product code 37325 00 to avoid disclosing operations of individual companies.

<sup>8</sup>Excludes railroad equipment shipped by shops of operating railroads. (See section below).

<sup>9</sup>These are 1972 data as published in the 1973 report and may differ from that previously published.

<sup>10</sup>Passenger and freight train cars are defined as rebuilt when the cost of dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Conversions and classification of units by replacement of defective parts are not included.

<sup>11</sup>Value of locomotives and railroad cars built by railroads for own use represents the amounts which are written into property accounts.

In the case of rebuilt units, the values represent the additional values written into the property account.

<sup>12</sup>Railroad equipment shipped by shops of operating railroads.

<sup>13</sup>The 1972 data for other hopper cars (both covered and uncovered), refrigerator cars, cabooses, and "Other cars, including railroad equipment, street, subway, rapid transit, interurban cars, trolley buses and self-propelled cars" are included with the figure for "Rebuilt freight train cars" (code 37433 51).

<sup>14</sup>The 1967 data for covered hopper cars, refrigerator cars, cabooses, and rebuilt passenger train cars are included with the figure for "Other cars..." (code 37433 13).

<sup>15</sup>Establishments producing self-propelled golf carts were included in this industry in 1967 but, for 1972, they are classified in industry 3799.

<sup>16</sup>In 1967, this product was defined as "25 feet to 29 feet 11 inches in length."

<sup>17</sup>These values also include mobile homes not specified by kind.

<sup>18</sup>Self-propelled golf carts were classified in industry 3751 in 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NONPROPELLED SHIPS, NEW CONSTRUCTION (37311)			SELF PROPELLED SHIPS, NONMILITARY, NEW (37313)—Continued		
United States.....	361.9	149.0	North Central Region—Continued		
Northeast Region.....	GG	EE	West North Central Division.....	CC	( <sup>1</sup> )
New England Division.....	AA	( <sup>1</sup> )	Missouri.....	CC	( <sup>1</sup> )
Maine.....	AA	( <sup>1</sup> )	Kansas.....	AA	( <sup>1</sup> )
Middle Atlantic Division.....	GG	EE	South Region.....	433.4	210.1
New York.....	AA	( <sup>1</sup> )	South Atlantic Division.....	157.7	85.6
Pennsylvania.....	GG	EE	Maryland.....	GG	28.6
North Central Region.....	GG	FF	North Carolina.....	FF	EE
East North Central Division.....	FF	FF	Georgia.....	CC	( <sup>1</sup> )
Indiana.....	FF	FF	Florida.....	EE	FF
Wisconsin.....	AA	( <sup>1</sup> )	East South Central Division.....	99.0	58.1
West North Central Division.....	FF	( <sup>1</sup> )	Tennessee.....	BB	AA
Missouri.....	FF	( <sup>1</sup> )	Alabama.....	EE	AA
South Region.....	233.5	77.6	Mississippi.....	GG	GG
South Atlantic Division.....	CC	CC	West South Central Division.....	176.6	66.3
Maryland.....	CC	BB	Louisiana.....	148.5	34.4
East South Central Division.....	FF	EE	Texas.....	28.1	31.9
Kentucky.....	BB	BB	West Region.....	134.4	35.5
Tennessee.....	EE	CC	Pacific Division.....	134.4	35.5
Alabama.....	CC	( <sup>1</sup> )	Washington.....	79.2	11.4
Mississippi.....	FF	AA	California.....	GG	20.5
West South Central Division.....	180.2	58.7			
Louisiana.....	91.9	29.3	SHIP REPAIR, U.S. MILITARY (37314)		
Texas.....	88.3	29.4	United States.....	386.5	423.0
West Region.....	5.0	13.4	Northeast Region.....	149.5	GG
Pacific Division.....	5.0	13.4	New England Division.....	GG	GG
Washington.....	BB	( <sup>1</sup> )	Maine.....	FF	BB
California.....	BB	CC	Massachusetts.....	CC	6.8
			Rhode Island.....	AA	( <sup>1</sup> )
SELF-PROPELLED SHIPS, U.S. MILITARY, NEW (37312)			Connecticut.....	GG	FF
United States.....	1,100.0	973.8	Middle Atlantic Division.....	EE	FF
Northeast Region.....	GG	GG	New York.....	CC	11.9
New England Division.....	GG	GG	New Jersey.....	1.8	9.7
Maine.....	EE	FF	South Region.....	147.9	197.9
Massachusetts.....	FF	GG	South Atlantic Division.....	117.7	151.0
Connecticut.....	GG	GG	Maryland.....	BB	FF
North Central Region.....	1.5	38.0	Virginia.....	GG	GG
East North Central Division.....	1.5	38.0	South Carolina.....	CC	CC
Wisconsin.....	AA	EE	Georgia.....	AA	( <sup>1</sup> )
South Region.....	GG	GG	Florida.....	FF	FF
South Atlantic Division.....	GG	GG	East South Central Division.....	FF	BB
Virginia.....	GG	GG	Alabama.....	BB	BB
East South Central Division.....	GG	GG	Mississippi.....	FF	( <sup>1</sup> )
Mississippi.....	GG	GG	West South Central Division.....	CC	FF
West South Central Division.....	GG	GG	Louisiana.....	3.7	FF
Louisiana.....	GG	GG	Texas.....	BB	2.7
West Region.....	81.2	191.2	West Region.....	88.2	137.7
Pacific Division.....	81.2	191.2	Pacific Division.....	88.2	137.7
Washington.....	21.7	95.9	Washington.....	CC	EE
California.....	59.6	GG	Oregon.....	EE	FF
			California.....	GG	97.7
			Hawaii.....	AA	BB
SELF-PROPELLED SHIPS, NONMILITARY, NEW (37313)			REPAIR OF NONMILITARY SHIPS (37316)		
United States.....	816.1	361.8	United States.....	484.2	407.2
Northeast Region.....	195.0	100.3	Northeast Region.....	65.0	61.3
New England Division.....	GG	FF	New England Division.....	5.0	4.6
Maine.....	FF	FF	Massachusetts.....	4.0	BB
Massachusetts.....	FF	( <sup>1</sup> )	Middle Atlantic Division.....	60.0	56.7
Rhode Island.....	AA	AA	New York.....	31.7	28.7
Connecticut.....	AA	( <sup>1</sup> )	New Jersey.....	21.0	EE
Middle Atlantic Division.....	GG	GG	Pennsylvania.....	7.3	CC
New York.....	GG	4.0	North Central Region.....	29.8	15.2
New Jersey.....	BB	BB	East North Central Division.....	FF	EE
Pennsylvania.....	GG	GG	Ohio.....	7.3	CC
North Central Region.....	GG	16.0	Indiana.....	BB	AA
East North Central Division.....	FF	EE	Illinois.....	BB	BB
Ohio.....	FF	BB	Michigan.....	AA	AA
Indiana.....	CC	BB	Wisconsin.....	EE	( <sup>1</sup> )
Michigan.....	BB	( <sup>1</sup> )	West North Central Division.....	BB	BB
Wisconsin.....	CC	5.8	Missouri.....	BB	BB

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
REPAIR OF NONMILITARY SHIPS (37316)—Continued			INBOARD MOTORBOATS, INCLUDING INBOARD-OUTDRIVE HOUSEBOATS (37325)—Continued		
South Region.....	264.9	248.1	North Central Region.....	71.6	(NA)
South Atlantic Division.....	GG	160.4	East North Central Division.....	54.2	(NA)
Maryland.....	FF	GG	Ohio.....	BB	(NA)
Virginia.....	FF	GG	Indiana.....	EE	(NA)
Florida.....	34.7	34.1	Michigan.....	28.4	(NA)
East South Central Division.....	FF	23.5	Wisconsin.....	12.0	(NA)
Kentucky.....	3.1	AA	West North Central Division.....	17.3	(NA)
Tennessee.....	AA	( <sup>1</sup> )	Minnesota.....	BB	(NA)
Alabama.....	FF	FF	Missouri.....	EE	(NA)
West South Central Division.....	121.9	64.3	Kansas.....	BB	(NA)
Louisiana.....	60.5	28.0			
Texas.....	61.4	36.3	South Region.....	105.8	(NA)
West Region.....	124.4	82.6	South Atlantic Division.....	63.1	(NA)
Pacific Division.....	124.4	82.6	Maryland.....	BB	(NA)
Washington.....	36.9	20.2	South Carolina.....	BB	(NA)
Oregon.....	CC	EE	Florida.....	56.5	(NA)
California.....	78.8	48.0	East South Central Division.....	18.5	(NA)
Hawaii.....	BB	AA	Kentucky.....	BB	(NA)
			Tennessee.....	EE	(NA)
OUTBOARD MOTORBOATS, INCLUDING PREFABRICATED KITS (37322)			West South Central Division.....	24.2	(NA)
United States.....	233.9	70.2	Arkansas.....	CC	(NA)
Northeast Region.....	20.7	9.3	Louisiana.....	BB	(NA)
New England Division.....	CC	BB	Texas.....	EE	(NA)
Massachusetts.....	CC	BB			
Middle Atlantic Division.....	EE	CC	West Region.....	52.3	(NA)
New Jersey.....	CC	( <sup>1</sup> )	Mountain Division.....	9.1	(NA)
Pennsylvania.....	CC	BB	Arizona.....	CC	(NA)
North Central Region.....	57.8	17.3	Utah.....	BB	(NA)
East North Central Division.....	29.5	7.3	Pacific Division.....	43.2	(NA)
Indiana.....	13.4	1.8	Washington.....	30.0	(NA)
Illinois.....	11.3	AA	California.....	10.8	(NA)
Michigan.....	1.7	2.5			
Wisconsin.....	3.1	( <sup>1</sup> )	INBOARD-OUTDRIVE BOATS (EXCEPT HOUSEBOATS) (37326) <sup>2</sup>		
West North Central Division.....	28.3	10.1	United States.....	95.9	(NA)
Minnesota.....	11.6	CC	Northeast Region.....	2.8	(NA)
Missouri.....	CC	BB	Middle Atlantic Division.....	AA	(NA)
Kansas.....	CC	( <sup>1</sup> )	Pennsylvania.....	AA	(NA)
South Region.....	128.2	GG	North Central Region.....	31.3	(NA)
South Atlantic Division.....	44.8	GG	East North Central Division.....	13.0	(NA)
North Carolina.....	6.8	( <sup>1</sup> )	Illinois.....	1.2	(NA)
South Carolina.....	2.6	( <sup>1</sup> )	Michigan.....	EE	(NA)
Georgia.....	BB	( <sup>1</sup> )	West North Central Division.....	18.3	(NA)
Florida.....	32.2	( <sup>1</sup> )	Minnesota.....	EE	(NA)
East South Central Division.....	19.9	GG	Kansas.....	BB	(NA)
Tennessee.....	EE	( <sup>1</sup> )	South Region.....	35.5	(NA)
West South Central Division.....	63.6	EE	South Atlantic Division.....	19.6	(NA)
Arkansas.....	16.6	EE	Georgia.....	BB	(NA)
Louisiana.....	14.8	( <sup>1</sup> )	Florida.....	15.6	(NA)
Oklahoma.....	1.8	( <sup>1</sup> )	East South Central Division.....	CC	(NA)
Texas.....	30.4	( <sup>1</sup> )	Tennessee.....	CC	(NA)
West Region.....	27.0	GG	West South Central Division.....	CC	(NA)
Mountain Division.....	AA	( <sup>1</sup> )	Oklahoma.....	AA	(NA)
Pacific Division.....	FF	GG	Texas.....	7.3	(NA)
Washington.....	10.1	GG	West Region.....	26.2	(NA)
Oregon.....	BB	EE	Pacific Division.....	FF	(NA)
California.....	13.0	( <sup>1</sup> )	Washington.....	FF	(NA)
			California.....	CC	(NA)
INBOARD MOTORBOATS, INCLUDING INBOARD-OUTDRIVE HOUSEBOATS (37325) <sup>2</sup>			ALL OTHER BOATS (SAILBOATS, ROWBOATS, ETC.) (37327) <sup>2</sup>		
United States.....	285.0	(NA)	United States.....	130.4	(NA)
Northeast Region.....	55.5	(NA)	Northeast Region.....	32.4	(NA)
New England Division.....	1.6	(NA)	New England Division.....	25.6	(NA)
Middle Atlantic Division.....	53.8	(NA)	Maine.....	3.5	(NA)
New York.....	EE	(NA)	Massachusetts.....	5.2	(NA)
New Jersey.....	FF	(NA)	Rhode Island.....	CC	(NA)
Pennsylvania.....	EE	(NA)	Connecticut.....	CC	(NA)

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
ALL OTHER BOATS (SAILBOATS, ROWBOATS, ETC.) (37327)—Continued			STREETCARS, PARTS AND ACCESSORIES, FOR RAILROAD CARS (37433)—Continued		
Northeast Region—Continued			North Central Region.....	259.4	178.1
Middle Atlantic Division.....	6.9	(NA)	East North Central Division.....	GG	146.5
New York.....	BB	(NA)	Ohio.....	35.8	34.9
New Jersey.....	1.7	(NA)	Indiana.....	FF	( <sup>1</sup> )
Pennsylvania.....	AA	(NA)	Illinois.....	GG	30.4
North Central Region.....	23.9	(NA)	Michigan.....	FF	47.6
East North Central Division.....	13.7	(NA)	Wisconsin.....	7.8	7.1
Ohio.....	2.0	(NA)	West North Central Division.....	GG	31.6
Indiana.....	8.1	(NA)	Minnesota.....	AA	( <sup>1</sup> )
Michigan.....	1.8	(NA)	Iowa.....	AA	( <sup>1</sup> )
Wisconsin.....	1.7	(NA)	Missouri.....	GG	EE
West North Central Division.....	10.2	(NA)	Kansas.....	CC	EE
Minnesota.....	6.7	(NA)	South Region.....	FF	32.7
Missouri.....	BB	(NA)	South Atlantic Division.....	EE	CC
South Region.....	29.7	(NA)	West Virginia.....	BB	BB
South Atlantic Division.....	23.1	(NA)	Georgia.....	CC	BB
Virginia.....	BB	(NA)	East South Central Division.....	BB	CC
North Carolina.....	AA	(NA)	Kentucky.....	AA	( <sup>1</sup> )
South Carolina.....	AA	(NA)	Alabama.....	BB	CC
Florida.....	EE	(NA)	West South Central Division.....	17.5	20.7
East South Central Division.....	1.4	(NA)	Texas.....	17.5	20.1
West South Central Division.....	5.2	(NA)	West Region.....	CC	4.6
Arkansas.....	BB	(NA)	Pacific Division.....	CC	4.6
Texas.....	2.2	(NA)	Washington.....	BB	AA
West Region.....	44.4	(NA)	California.....	5.1	BB
Pacific Division.....	44.4	(NA)			
Washington.....	AA	(NA)	BICYCLES AND PARTS (37511) <sup>2</sup>		
California.....	42.3	(NA)	United States.....	396.8	(NA)
BOAT REPAIR (37328)			Northeast Region.....	GG	(NA)
United States.....	74.3	(NA)	New England Division.....	FF	(NA)
Northeast Region.....	20.0	(NA)	Massachusetts.....	FF	(NA)
New England Division.....	9.6	(NA)	Connecticut.....	CC	(NA)
Massachusetts.....	4.6	(NA)	Middle Atlantic Division.....	57.3	(NA)
Rhode Island.....	BB	(NA)	New York.....	FF	(NA)
Middle Atlantic Division.....	10.4	(NA)	Pennsylvania.....	EE	(NA)
New York.....	BB	(NA)	North Central Region.....	GG	(NA)
New Jersey.....	6.7	(NA)	East North Central Division.....	GG	(NA)
North Central Region.....	3.6	(NA)	Ohio.....	GG	(NA)
East North Central Division.....	BB	(NA)	Indiana.....	BB	(NA)
Michigan.....	AA	(NA)	Illinois.....	GG	(NA)
Wisconsin.....	BB	(NA)	South Region.....	132.5	(NA)
South Region.....	28.0	(NA)	East South Central Division.....	GG	(NA)
South Atlantic Division.....	16.6	(NA)	Kentucky.....	EE	(NA)
Virginia.....	3.1	(NA)	Tennessee.....	GG	(NA)
North Carolina.....	BB	(NA)	West South Central Division.....	FF	(NA)
Florida.....	9.4	(NA)	Arkansas.....	FF	(NA)
East South Central Division.....	3.0	(NA)	West Region.....	FF	(NA)
Kentucky.....	AA	(NA)	Mountain Division.....	AA	(NA)
Alabama.....	AA	(NA)	Arizona.....	AA	(NA)
West South Central Division.....	8.3	(NA)	Pacific Division.....	EE	(NA)
Louisiana.....	6.3	(NA)	California.....	EE	(NA)
Texas.....	BB	(NA)			
West Region.....	22.7	(NA)	MOTORCYCLES AND PARTS (37512) <sup>2</sup>		
Pacific Division.....	22.7	(NA)	United States.....	112.3	(NA)
Washington.....	BB	(NA)	Northeast Region.....	5.1	(NA)
Oregon.....	CC	(NA)	New England Division.....	BB	(NA)
California.....	9.5	(NA)	Connecticut.....	BB	(NA)
Hawaii.....	AA	(NA)	Middle Atlantic Division.....	AA	(NA)
New Jersey.....	CC	( <sup>1</sup> )	New Jersey.....	AA	(NA)
STREETCARS, PARTS AND ACCESSORIES, FOR RAILROAD CARS (37433)			North Central Region.....	87.6	(NA)
United States.....	501.2	340.4	East North Central Division.....	80.4	(NA)
Northeast Region.....	199.6	125.0	Ohio.....	CC	(NA)
Middle Atlantic Division.....	199.6	GG	Michigan.....	AA	(NA)
New York.....	FF	FF	Wisconsin.....	GG	(NA)
New Jersey.....	CC	( <sup>1</sup> )	West North Central Division.....	7.3	(NA)
Pennsylvania.....	164.4	98.8	Nebraska.....	CC	(NA)

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MOTORCYCLES AND PARTS (37512)—Continued			RECREATION TYPE TRAILERS (37921)—Continued		
South Region.....	3.2	(NA)	West Region—Continued		
South Atlantic Division.....	BB	(NA)	Mountain Division—Continued		
Florida.....	AA	(NA)	Arizona.....	AA	(NA)
West Region.....	16.3	(NA)	Utah.....	CC	(NA)
Pacific Division.....	EE	(NA)	Pacific Division.....	140.7	(NA)
California.....	EE	(NA)	Washington.....	AA	(NA)
			Oregon.....	FF	(NA)
			California.....	104.8	(NA)
RECREATION TYPE TRAILERS (37921) <sup>2</sup>			CAMPING TRAILERS, CAMPERS AND PICKUP COVERS (37922) <sup>2</sup>		
United States.....	619.9	(NA)	United States.....	273.3	(NA)
Northeast Region.....	24.7	(NA)	Northeast Region.....	8.6	(NA)
New England Division.....	AA	(NA)	Middle Atlantic Division.....	CC	(NA)
Maine.....	AA	(NA)	Pennsylvania.....	CC	(NA)
Rhode Island.....	AA	(NA)			
Middle Atlantic Division.....	FF	(NA)	North Central Region.....	146.9	(NA)
New York.....	CC	(NA)	East North Central Division.....	115.8	(NA)
Pennsylvania.....	EE	(NA)	Ohio.....	BB	(NA)
North Central Region.....	329.2	(NA)	Indiana.....	81.0	(NA)
East North Central Division.....	291.3	(NA)	Michigan.....	29.4	(NA)
Ohio.....	GG	(NA)	Wisconsin.....	BB	(NA)
Indiana.....	196.7	(NA)	West North Central Division.....	31.1	(NA)
Michigan.....	29.1	(NA)	Iowa.....	2.9	(NA)
Wisconsin.....	BB	(NA)	Missouri.....	2.9	(NA)
West North Central Division.....	37.9	(NA)	Kansas.....	24.1	(NA)
Minnesota.....	BB	(NA)			
Iowa.....	FF	(NA)	South Region.....	23.2	(NA)
Missouri.....	4.6	(NA)	South Atlantic Division.....	11.0	(NA)
Kansas.....	10.2	(NA)	North Carolina.....	5.2	(NA)
South Region.....	93.9	(NA)	Georgia.....	3.0	(NA)
South Atlantic Division.....	FF	(NA)	East South Central Division.....	2.0	(NA)
Maryland.....	EE	(NA)	Kentucky.....	AA	(NA)
Virginia.....	EE	(NA)	West South Central Division.....	10.3	(NA)
South Carolina.....	BB	(NA)	Arkansas.....	AA	(NA)
Georgia.....	5.7	(NA)	Oklahoma.....	4.1	(NA)
Florida.....	BB	(NA)	Texas.....	3.5	(NA)
East South Central Division.....	EE	(NA)			
Tennessee.....	CC	(NA)	West Region.....	94.5	(NA)
Mississippi.....	AA	(NA)	Mountain Division.....	23.4	(NA)
West South Central Division.....	45.1	(NA)	Montana.....	AA	(NA)
Oklahoma.....	EE	(NA)	Idaho.....	9.4	(NA)
Texas.....	32.9	(NA)	Colorado.....	8.6	(NA)
West Region.....	172.1	(NA)	Arizona.....	2.2	(NA)
Mountain Division.....	31.4	(NA)	Utah.....	AA	(NA)
Montana.....	AA	(NA)	Pacific Division.....	71.1	(NA)
Idaho.....	EE	(NA)	Washington.....	AA	(NA)
Colorado.....	10.4	(NA)	Oregon.....	EE	(NA)
			California.....	52.4	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>Data were not published for this State, Division, or Region in 1967.

<sup>2</sup>The individual product codes included in this class of product for 1972 differ significantly from the prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments at the U.S. level.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3731	Ship building and repairing.....	3,200.7	2,661.0	2,594.2	2,437.0	2,360.5	2,357.9	1,518.0	1,467.4
37311	Nonpropelled ships, new construction.....	361.9	233.5	173.4	168.9	154.3	149.0	82.2	95.3
37312	Self-propelled ships, U.S. military, new.....	1,100.0	1,046.7	1,086.4	869.0	884.6	973.8	681.8	470.0
37313	Self-propelled ships, nonmilitary, new.....	816.1	578.3	514.4	457.0	478.2	361.8	242.8	441.2
37314	Ship repair, U.S. military.....	386.5	324.7	359.1	384.3	362.9	423.0	221.9	123.8
37316	Repair of nonmilitary ships.....	484.2	450.3	430.5	531.6	458.3	407.2	277.4	326.8
37310	Ship building and repairing, n.s.k.....	52.1	(27.5)	(30.4)	26.2	22.2	43.2	11.9	10.3
3732	Boat building and repairing.....	1,031.1	691.2	644.2	778.4	632.4	570.8	338.1	300.1
37322	Outboard motor boats, including prefabricated kits.....	233.9	184.8	169.4	157.3	95.4	70.2	79.6	108.4
37325	Inboard motor boats, including inboard-outdrive houseboats.....	285.0	247.5	231.4	314.5	272.1	259.0	125.9	76.1
37326	Inboard-outdrive boats (except houseboats).....	95.9							
37327	All other boats (sailboats, rowboats, etc.).....	130.4	80.0	86.8	(125.7)	87.8	45.6	36.5	15.5
37328	Boat repair.....	74.3	74.9	(66.7)	81.5	81.9	82.2	42.6	55.1
37320	Boat building and repairing, n.s.k.....	211.6	104.0	(89.9)	(99.4)	95.2	114.0	53.5	45.1
3743	Railroad equipment.....	2,284.2	(NA)	(NA)	(NA)	(NA)	1,943.5	1,249.1	883.8
37431	Locomotives and parts.....	(D)	(NA)	(NA)	(NA)	(NA)	569.1	378.1	355.2
37432	Passenger and freight, train cars, new.....	(D)	933.8	967.6	1,007.3	691.9	1,026.5	559.5	330.7
37433	Streetcars, parts and accessories, for railroad cars.....	501.2	493.1	497.2	495.4	353.6	340.4	310.2	196.5
37430	Railroad equipment, n.s.k.....	23.6	1.3	(1.6)	7.0	6.7	7.6	1.3	1.4
3751	Motorcycles, bicycles, and parts <sup>2</sup> .....	540.6	(NA)	(NA)	(NA)	(NA)	226.3	151.2	105.8
37511	Bicycles and parts.....	396.8	(NA)	(NA)	(NA)	(NA)	176.6	119.6	76.4
37512	Motorcycles and parts.....	112.3	(NA)	(NA)	(NA)	(NA)	45.5	28.8	26.0
37510	Bicycles, motorcycles, and parts, n.s.k.....	31.5	(NA)	(NA)	(NA)	(NA)	4.3	2.8	3.4
3792	Travel trailers and campers <sup>3</sup> .....	1,276.5	(NA)	(NA)	(NA)	(NA)	400.8	(NA)	(NA)
37921	Recreation type trailers <sup>4</sup> .....	619.9	(NA)	(NA)	(NA)	(NA)	186.6	64.9	(NA)
37922	Camping trailers, campers, and pickup covers <sup>5</sup> .....	273.3	(NA)	(NA)	(NA)	(NA)	115.6	(NA)	(NA)
37920	Travel trailers and campers, n.s.k. <sup>6</sup> .....	383.3	(NA)	(NA)	(NA)	(NA)	98.6	(NA)	(NA)
37950	Tanks and tank components.....	285.1	298.5	375.7	447.1	565.6	409.3	454.4	(NA)
3799	Transportation equipment, n.e.c.....	781.6	(NA)	(NA)	(NA)	(NA)	257.6	(NA)	(NA)
37993	Golf carts, self-propelled <sup>7</sup> .....	54.1	(NA)	(NA)	(NA)	(NA)	36.3	12.1	(NA)
37994	Snowmobiles, self-propelled <sup>7</sup> .....	203.1	(NA)	(NA)	(NA)	(NA)	36.3	(NA)	(NA)
37999	Other transportation equipment <sup>8</sup> .....	459.5	(NA)	(NA)	(NA)	(NA)	151.3	(NA)	(NA)
37990	Transportation equipment, n.e.c., n.s.k. <sup>9</sup> .....	64.9	(NA)	(NA)	(NA)	(NA)	33.7	(NA)	(NA)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Golf carts, self-propelled, were included in industry 3751 in 1967 and prior years.

<sup>3</sup>Industry 3792 products are equivalent to the sum of 1967 products 37910 31 through 37910 47.

<sup>4</sup>Product class 37921 products are equivalent to the sum of 1967 products 37910 31 through 37910 35.

<sup>5</sup>Product class 37922 products are equivalent to the sum of 1967 products 37910 43 through 37910 47.

<sup>6</sup>Includes n.s.k. for industry 2451.

<sup>7</sup>This product class is equivalent to 1967 product code 37992 93.

<sup>8</sup>The individual product codes included in this class of product for 1972 differ significantly from prior years. Products shifting into or out of this class of product represent more than 15 percent of the total shipments value at the U.S. level.

<sup>9</sup>The value of transportation equipment, not specified by kind (n.s.k.), is not strictly comparable for 1972 and 1967.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3731.--SHIP BUILDING AND REPAIRING						
	Materials, parts, containers, and supplies, total.....		(X)	1,311.8	(X)	1,025.5
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bar and bar shapes.....	1,000 s. tons.	109.2	21.5	109.7	18.1
331012	Sheet and strip.....	..do.....	73.8	14.3	91.2	14.9
331013	Plates.....	..do.....	888.1	186.5	656.6	97.7
331015	Structural shapes.....	..do.....	263.4	49.1	185.4	29.4
331017	Wire and wire products.....	..do.....	248.8	2.4	6.5	2.0
331019	All other carbon steel mill shapes and forms.....	..do.....	51.5	15.1	50.8	9.2
331020	Alloy steel (except stainless).....	..do.....	17.7	10.4	16.2	7.0
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.9	1.2	3.8	4.8
331050	All other stainless steel mill shapes and forms.....	..do.....	1.7	2.8		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	6.3	8.7	7.4	10.9
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	.4	.4
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	1.7	1.6	2.2	1.6
335143	Plate, sheet, and strip (including military cups and discs)....	..do.....	.6	.5	1.0	1.0
335152	Pipe and tube.....	..do.....	13.8	12.4	11.2	11.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	6.8	4.5	7.4	4.0
335405	Extruded shapes, including extruded rod, bar, pipe, etc.....	..do.....	1.3	2.0	14.3	13.2
335008	All other aluminum mill shapes and forms, wire, rolled rod, etc..	..do.....	.7	1.3		
	Castings (rough and semifinished): <sup>2</sup>					
332045	Steel.....	1,000 s. tons.	6.6	4.8	9.3	8.3
336100	Aluminum and aluminum-base alloy.....	Million lb....	.1	.2	.9	.9
336200	Copper and copper-base alloy.....	..do.....	(NA)	(NA)	2.6	3.2
	Engines: <sup>2</sup>					
351920	Diesel and semidiesel.....	1,000 units...	2.6	37.1	2.6	32.7
351901	Gasoline and other carburetor.....	..do.....	.9	1.8	1.8	4.7
362120	Integral horsepower electric motors and generators (1hp and over) <sup>2</sup> ..	..do.....	1.1	3.0	3.2	6.2
242103	Dressed lumber.....	Mil. bd. ft....	26.9	6.8	27.9	5.6
243056	Plywood.....	..do.....	(X)	3.2	(X)	2.8
282130	Thermoplastic resins.....	Million lb. (dry basis).	14.8	2.4	3.2	1.7
282140	Thermosetting resins.....	..do.....	2.9	1.0	2.6	.6
322931	Glass fiber.....	Million lb....	6.7	3.4	1.9	1.2
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	870.4	(X)	672.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....		(X)	42.0	(X)	59.1
INDUSTRY 3732.--BOAT BUILDING AND REPAIRING						
	Materials, parts, containers, and supplies, total.....		(X)	521.5	(X)	271.4
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bar and bar shapes.....	1,000 s. tons.	2.2	.5	1.5	.2
331012	Sheet and strip.....	..do.....	5.4	1.2	8.4	1.2
331013	Plates.....	..do.....	7.1	1.5	6.8	1.2
331015	Structural shapes.....	..do.....	2.9	.8	2.0	.3
331017	Wire and wire products.....	..do.....	(Z)	.1	.1	(Z)
331019	All other carbon steel mill shapes and forms.....	..do.....	.9	.3	.5	.1
331020	Alloy steel (except stainless).....	..do.....	2.1	1.1	1.0	.2
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.2	.4	.3	.5
331050	All other stainless steel mill shapes and forms.....	..do.....	.2	.5		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.2	.3	.3	.3
	Copper and copper-base alloy:					
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	1.1	1.1	.1	.1
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	(Z)	(Z)	(Z)	(Z)
335152	Pipe and tube.....	..do.....	.3	.2	.5	.3
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	154.2	15.0	17.7	7.1
335405	Extruded shapes, rod, bar, pipe, etc.....	..do.....	31.0	6.0	4.1	2.9
335008	All other aluminum mill shapes and forms, wire, rolled rod, etc..	..do.....	50.3	.4	.3	.2
	Castings (rough and semifinished): <sup>2</sup>					
332045	Steel.....	1,000 s. tons.	.8	.4	.3	.2
336100	Aluminum and aluminum-base alloy.....	Million lb....	1.2	1.1	.6	.4
336200	Copper and copper-base alloy.....	..do.....	.3	.5	(NA)	1.7

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3732.--BOAT BUILDING AND REPAIRING—Continued					
	Materials, parts, containers, and supplies—Continued					
	Engines: <sup>2</sup>					
351920	Diesel and semidiesel.....	1,000 units...	2.0	7.3	1.6	4.9
351901	Gasoline and other carburetor.....	...do.....	59.5	81.6	30.9	33.1
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>2</sup> .....	...do.....	(X)	(X)	1.0	1.0
242103	Dressed lumber.....	Mil. bd. ft...	24.3	7.0	(NA)	3.8
243056	Plywood.....	(X)	(X)	13.3	(X)	9.5
282130	Thermoplastic resins.....	Million lb. (dry basis).	26.4	6.2	(NA)	4.8
282140	Thermosetting resins.....	...do.....	113.7	22.1	38.4	8.8
322931	Glass fiber.....	Million lb...	62.3	33.4	(NA)	11.4
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	166.1	(X)	84.5
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	153.1	(X)	92.7
	INDUSTRY 3743.--RAILROAD EQUIPMENT					
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>1</sup> 1,263.6	(X)	1,243.3
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	112.3	23.0	138.4	24.6
331012	Sheet and strip.....	...do.....	238.1	43.8	226.8	33.8
331013	Plates.....	...do.....	629.9	121.4	842.6	131.6
331015	Structural shapes.....	...do.....	232.8	47.0	475.1	88.9
331017	Wire and wire products.....	...do.....	3.4	1.9		
331019	All other carbon steel mill shapes and forms.....	...do.....	130.6	30.2		
331020	Alloy steel (except stainless).....	...do.....	8.9	3.2	(D)	(D)
331031	Stainless steel.....	...do.....	3.3	5.8		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	15.9	12.0	(D)	(D)
335143	Plate, sheet, and strip, including military cups and discs....	...do.....			(D)	(D)
335152	Pipe and tube.....	...do.....			(D)	(D)
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....	1.3	1.0	20.0	16.1
335405	Extruded shapes.....	...do.....	3.9	2.4		
335008	All other aluminum mill shapes and forms.....	...do.....				
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	72.2	66.1	(D)	(D)
332045	Steel.....	...do.....	179.0	107.4	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.4	4.6	(D)	(D)
346200	Iron and steel forgings <sup>2</sup> .....	1,000 s. tons.	92.2	46.6	(D)	(D)
351920	Diesel and semidiesel engines <sup>2</sup> .....	1,000 units...	(D)	(D)	(D)	(D)
362120	Integral horsepower electric motors and generators (1 hp. and over) <sup>2</sup> .....	...do.....	9.8	4.9	(D)	(D)
356200	Ball and roller bearings.....	.....	(X)	40.3	(X)	(D)
374332	Railway and streetcar brakes (air and vacuum).....	.....	(X)	117.0	(X)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	565.9	(X)	<sup>1</sup> 925.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	15.0	(X)	22.5

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost  (million dollars)
	INDUSTRY 3751.--MOTORCYCLES, BICYCLES, AND PARTS			
	Materials, parts, containers, and supplies, total.....		(X)	339.2
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	10.3	3.0
331012	Sheet and strip.....	..do.....	142.2	29.3
331017	Wire and wire products.....	..do.....	9.4	2.3
331013	Plates.....	..do.....	2.0	.7
331015	Structural shapes.....	..do.....	16.5	3.5
331019	All other carbon steel mill shapes and forms.....	..do.....		

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
				(million dollars)
	INDUSTRY 3751.--MOTORCYCLES, BICYCLES, AND PARTS--Continued			
	Materials, parts, containers, and supplies--Continued			
	Mill shapes and forms, except castings:			
331025	Alloy steel, including stainless.....	1,000 s. tons.....	0.5	0.3
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	...do.....	(4)	(4)
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	1.1	.7
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(NA)	4.3
332045	Steel castings (rough and semifinished) <sup>2</sup> .....	...do.....	3.6	2.6
336100	Aluminum and aluminum-base alloy castings <sup>2</sup> .....	Million lb.....	(D)	(D)
346200	Iron and steel forgings.....	1,000 s. tons.....	5.6	5.9
	Bearings:			
356218	Ball.....	.....	(X)	1.7
356201	Roller.....	.....	(X)	.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	<sup>1</sup> 241.3
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	41.5
	INDUSTRY 3792.--TRAVEL TRAILERS AND CAMPERS			
	Materials, parts, containers, and supplies, total.....	.....	(X)	859.0
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	104.6	2.9
331012	Sheet and strip.....	...do.....	16.4	3.5
331015	Structural shapes.....	...do.....	33.0	7.7
331019	All other carbon steel mill shapes and forms.....	...do.....	32.7	5.8
	Alloy steel, except stainless:			
331021	Bars and bar shapes.....	...do.....	.9	.3
331029	All other alloy steel mill shapes and forms.....	...do.....	145.0	2.1
331031	Stainless steel.....	...do.....	(NA)	.4
335790	Insulated wire and cable.....	Mil. lb. (copper content).	5.1	4.9
	Copper and copper-base alloy:			
335728	Bare wire (electrical conduction only).....	Million lb.....	.7	1.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....	1.6	2.3
335143	Plate, sheet, and strip, including military cups and discs....	...do.....		
335152	Pipe and tube.....	...do.....		
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate, and foil.....	...do.....	(NA)	26.5
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	15.7	7.2
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welding tubing, etc.).....	...do.....	5.6	3.4
	Castings (rough and semifinished): <sup>2</sup>			
332045	Steel.....	1,000 s. tons.....	(NA)	2.2
336100	Aluminum and aluminum-base alloy.....	Million lb.....	(NA)	.3
243056	Plywood.....	.....	(X)	31.0
242103	Dressed lumber.....	Million bd. ft.....	(NA)	22.2
229501	Coated, impregnated, and laminated fabrics.....	Million lin. yd.....	(NA)	9.5
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	459.5
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	266.1

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3795.--TANKS AND TANK COMPONENTS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 131.4	(X)	229.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	3.9	1.4	64.2	42.7
331012	Sheet and strip.....	..do.....				
331013	Plates.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	13.5	7.0		
331029	All other alloy steel mill shapes and forms.....	..do.....	1.9	.9		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.2	.2		
331050	All other stainless steel mill shapes and forms.....	..do.....				

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3795.--TANKS AND TANK COMPONENTS--Continued					
	Materials, parts, containers, and supplies--Continued					
	Mill shapes and forms, except castings:					
335790	Copper and copper-base alloy: Insulated wire and cable.....	Mil. lb. (cop- per content).	(D)	(D)	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	Million lb....	(D)	(D)	.2	.2
335152	Pipe and tube.....	..do.....				
335301	Aluminum and aluminum-base alloy: Sheet, plate and foil.....	..do.....	(D)	(D)	17.1	13.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.).....	..do.....				
	Castings (rough and semifinished): <sup>2</sup>					
332011	Iron (gray and malleable).....	1,000 s. tons.	(D)	(D)	(D)	(D)
332045	Steel.....	..do.....	(D)	(D)	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	..do.....	(D)	(D)	(D)	(D)
	Forgings: <sup>2</sup>					
346200	Iron and steel.....	1,000 s. tons.	7.1	2.6	(D)	(D)
346310	Aluminum and aluminum-base alloy.....	Million lb....	(D)	(D)	(D)	(D)
	Bearings:					
356218	Ball.....	.....	(X)	(D)	(X)	(D)
356201	Roller.....	.....	(X)	(D)	(X)	(D)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	85.7	(X)	<sup>1</sup> 116.4
976000	Materials, parts, containers and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	1.6	(X)	56.4

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
	INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C.			
	Materials, parts, containers, and supplies, total.....	.....	(X)	<sup>1</sup> 408.4
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	33.3	7.3
331012	Sheet and strip.....	..do.....	124.9	22.6
331013	Plates.....	..do.....	22.5	3.5
331015	Structural shapes.....	..do.....	91.7	19.0
331017	Wire and wire products.....	..do.....	4.2	1.2
331019	All other carbon steel mill shapes and forms.....	..do.....	59.9	21.5
331025	Alloy steel (including stainless).....	..do.....	(D)	(D)
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate and foil.....	Million lb.....	54.3	22.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	9,536.4	5.1
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing etc.).....	..do.....	.8	.4
	Castings (rough and semifinished): <sup>2</sup>			
332300	Steel.....	1,000 s. tons.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	5.4	.3
346200	Iron and steel forgings <sup>2</sup> .....	..do.....	3.7	1.8
	Bearings:			
356218	Ball.....	.....	(X)	2.0
356201	Roller.....	.....	(X)	1.4
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	211.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	60.7

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost
			(million dollars)	
	INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C.			
	Materials, parts, containers, and supplies, total.....		(X)	<sup>1</sup> 408.4
	Mill shapes and forms, except castings:			
	Carbon steel:			
331011	Bars and bar shapes.....	1,000 s. tons.....	33.3	7.3
331012	Sheet and strip.....	...do.....	124.9	22.6
331013	Plates.....	...do.....	22.5	3.5
331015	Structural shapes.....	...do.....	91.7	19.0
331017	Wire and wire products.....	...do.....	4.2	1.2
331019	All other carbon steel mill shapes and forms.....	...do.....	59.9	21.5
331025	Alloy steel (including stainless).....	...do.....	(D)	(D)
	Aluminum and aluminum-base alloy:			
335301	Sheet, plate and foil.....	Million lb.....	54.3	22.6
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....	9,536.4	5.1
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing etc.).....	...do.....	.8	.4
	Castings (rough and semifinished): <sup>2</sup>			
332300	Steel.....	1,000 s. tons.....	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb.....	5.4	.3
346200	Iron and steel forgings <sup>2</sup> .....	...do.....	3.7	1.8
	Bearings:			
356218	Ball.....	.....	(X)	2.0
356201	Roller.....	.....	(X)	1.4
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	211.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....	.....	(X)	60.7

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>Excludes quantities produced and consumed in the same establishment.<sup>3</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>4</sup>Data for material code 335301 are combined with code 335008 to avoid disclosing operations of individual companies.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3731.--SHIP BUILDING AND REPAIRING						
	Purchased fuels and electric energy.....		(X)	24.5	(X)	20.2
	Purchased fuels, total.....		(X)	8.0	(X)	6.7
121005	Coal.....	1,000 s. tons.....	25.2	.4	(D)	(D)
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	906.6	3.8	771.7	2.5
291141	Distillate.....	..do.....	270.9	1.3	284.0	1.3
291151	Residual.....	..do.....	635.7	2.5	487.7	1.3
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.4	1.3	1.6	2.0
960011	Other fuels.....		(X)	1.4	(X)	(D)
975000	Fuels, n.s.k.....		(X)	1.0	(X)	.7
960012	Purchased electric energy.....	Million kWh.....	1,344.3	16.5	1,168.9	13.3
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(D)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.7	-	4.1	-
INDUSTRY 3732.--BOAT BUILDING AND REPAIRING						
	Purchased fuels and electric energy.....		(X)	5.8	(X)	(NA)
	Purchased fuels, total.....		(X)	2.3	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	1.2	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	92.4	.4	(NA)	(NA)
291141	Distillate.....	..do.....	77.8	.4	(NA)	(NA)
291151	Residual.....	..do.....	14.6	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.7	.4	(NA)	(NA)
960011	Other fuels.....		(X)	.3	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	1.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	277.4	3.5	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.3	-	(NA)	(NA)
INDUSTRY 3743.--RAILROAD EQUIPMENT						
	Purchased fuels and electric energy.....		(X)	17.0	(X)	(NA)
	Purchased fuels, total.....		(X)	7.9	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	170.9	1.9	(NA)	(NA)
331212	Coke.....	..do.....	(S)	(Z)	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	407.4	2.0	(NA)	(NA)
291141	Distillate.....	..do.....	355.3	1.8	(NA)	(NA)
291151	Residual.....	..do.....	52.1	.2	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	5.2	3.1	(NA)	(NA)
960011	Other fuels.....		(X)	.4	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	682.5	9.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	4.6	-	(NA)	(NA)
INDUSTRY 3751.--MOTORCYCLES, BICYCLES, AND PARTS						
	Purchased fuels and electric energy.....		(X)	3.2	(X)	(NA)
	Purchased fuels, total.....		(X)	1.4	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	1.9	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	59.2	.3	(NA)	(NA)
291141	Distillate.....	..do.....	37.3	.2	(NA)	(NA)
291151	Residual.....	..do.....	21.9	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.2	.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	156.0	1.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.9	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3799.--TRANSPORTATION EQUIPMENT, N.E.C.					
	Purchased fuels and electric energy.....		(X)	3.3	(X)	(NA)
	Purchased fuels, total.....		(X)	1.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	1.9	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	25.8	.1	(NA)	(NA)
291141	Distillate.....	...do.....	19.6	.1	(NA)	(NA)
291151	Residual.....	...do.....	6.2	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.2	.6	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.4	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	128.9	2.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.8	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.  
(S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.





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## MAJOR GROUP 38

### Instruments and Related Products

- 38A Engineering, measuring and controlling and optical instruments
- 38B Medical instruments; ophthalmic goods; photographic equipment; clocks, watches, and watchcases

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees <sup>1</sup>		Production workers			Value added by manufacture <sup>2</sup>	Cost of materials <sup>3</sup>	Value of industry shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
All manufacturing establishments, total: <sup>5</sup>											
1972.....	6,132	2,142	480.8	4,677.9	291.4	568.5	2,231.8	10,580.1	5,058.2	15,526.7	480.0
1967.....	4,542	1,670	409.6	2,980.8	265.9	530.2	1,569.0	6,418.4	3,591.8	9,907.2	392.2
1963.....	4,028	1,391	316.4	2,010.4	208.4	416.6	1,100.7	3,922.1	2,171.1	6,117.9	191.9
1958.....	3,584	1,225	293.8	1,564.0	197.0	389.7	897.5	2,781.0	(NA)	4,418.7	114.6
1954.....	(NA)	(NA)	277.9	1,234.0	195.6	391.4	759.5	2,131.0	(NA)	(NA)	94.0
Administrative and auxiliary units:											
1972 <sup>6</sup> .....	149	76	27.6	391.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 <sup>7</sup> .....	89	56	15.3	159.2	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 <sup>7</sup> .....	79	48	11.0	98.0	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 <sup>7</sup> .....	66	36	7.4	54.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 <sup>7</sup> .....	(NA)	(NA)	5.3	33.7	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972 <sup>8</sup> .....	5,983	2,066	453.2	4,286.2	291.4	568.5	2,231.8	10,580.1	5,058.2	15,526.7	480.0
1967 <sup>8</sup> .....	4,453	1,614	394.3	2,821.6	265.9	530.2	1,569.0	6,418.4	3,591.8	9,907.2	392.2
1963 <sup>8</sup> .....	3,949	1,343	305.5	1,912.5	208.4	416.6	1,100.7	3,992.1	2,171.1	6,117.8	191.9
1958 <sup>8</sup> .....	3,518	1,189	286.4	1,509.5	197.0	389.6	897.5	2,781.0	(NA)	4,418.7	114.6
1954.....	3,141	984	272.6	1,200.3	195.6	391.4	759.5	2,131.0	(NA)	(NA)	94.0
Operating manufacturing establishments:											
1971 <sup>9</sup> .....	(NA)	(NA)	381.7	3,345.7	244.9	465.1	1,732.9	8,385.9	3,956.8	12,275.8	392.7
1970 <sup>9</sup> .....	(NA)	(NA)	404.6	3,357.5	261.5	502.1	1,746.3	7,905.4	3,943.6	11,782.5	435.5
1969 <sup>9</sup> .....	(NA)	(NA)	413.1	3,271.8	271.0	535.2	1,757.2	7,676.0	4,119.9	11,686.3	388.3
1968 <sup>9</sup> .....	(NA)	(NA)	400.0	3,001.5	265.5	524.7	1,625.0	7,174.1	3,780.7	10,886.9	397.2
1966 <sup>9</sup> .....	(NA)	(NA)	362.0	2,509.3	248.8	494.1	1,426.0	5,833.3	3,210.9	8,832.7	307.0
1965 <sup>9</sup> .....	(NA)	(NA)	328.7	2,227.9	225.9	451.5	1,275.0	5,002.2	2,742.3	7,621.2	232.2
1964 <sup>9</sup> .....	(NA)	(NA)	308.0	2,013.6	209.1	420.5	1,148.5	4,314.3	2,378.1	6,603.2	192.1
1962 <sup>9</sup> .....	(NA)	(NA)	308.4	1,871.0	206.4	415.6	1,051.4	3,690.0	2,049.9	5,674.3	177.6
1961 <sup>9</sup> .....	(NA)	(NA)	316.3	1,908.4	208.2	415.1	1,036.8	3,574.0	2,055.9	5,607.4	178.7
1960 <sup>9</sup> .....	(NA)	(NA)	325.6	1,907.6	217.0	437.1	1,066.7	3,641.1	(NA)	(NA)	162.4
1959 <sup>9</sup> .....	(NA)	(NA)	310.5	1,782.7	214.4	432.4	1,032.5	3,410.1	(NA)	(NA)	145.0
1957 <sup>9</sup> .....	(NA)	(NA)	307.2	1,570.9	211.0	428.0	946.6	2,872.3	(NA)	(NA)	145.7
1956 <sup>9</sup> .....	(NA)	(NA)	296.7	1,458.3	211.1	426.3	896.5	2,690.5	(NA)	(NA)	145.1
1955 <sup>9</sup> .....	(NA)	(NA)	282.7	1,295.2	202.4	406.4	813.7	2,366.8	(NA)	(NA)	106.4
1953 <sup>9</sup> .....	(NA)	(NA)	285.5	1,232.5	212.1	433.8	823.6	2,169.4	(NA)	(NA)	90.3
1952 <sup>9</sup> .....	(NA)	(NA)	278.5	1,179.0	205.4	420.0	778.6	1,994.8	(NA)	(NA)	(NA)
1951 <sup>9</sup> .....	2,686	(NA)	253.1	1,001.3	189.7	389.8	670.7	1,608.2	(NA)	(NA)	85.0
1950 <sup>9</sup> .....	2,697	(NA)	226.4	812.5	169.4	341.7	531.8	1,388.9	(NA)	(NA)	64.4
1949 <sup>9</sup> .....	(NA)	(NA)	204.8	682.7	156.2	305.5	447.1	1,122.6	(NA)	(NA)	57.9
1947 <sup>9</sup> .....	2,605	(NA)	244.9	706.1	194.3	389.9	502.2	1,140.5	(NA)	(NA)	56.0
1939 <sup>10</sup> .....	1,292	(NA)	(NA)	(NA)	84.9	(NA)	107.7	333.4	(NA)	(NA)	(NA)
1937 <sup>10</sup> .....	1,026	(NA)	(NA)	(NA)	83.8	(NA)	112.7	298.3	(NA)	(NA)	(NA)
1935 <sup>11</sup> .....	1,000	(NA)	83.7	108.3	67.5	(NA)	74.2	200.1	(NA)	(NA)	(NA)
1933 <sup>12</sup> .....	830	(NA)	(NA)	(NA)	49.6	(NA)	46.2	142.4	(NA)	(NA)	(NA)
1931.....	1,029	(NA)	(NA)	(NA)	59.7	(NA)	66.4	200.7	(NA)	(NA)	(NA)
1929 <sup>13</sup> .....	1,109	(NA)	98.1	149.0	81.9	(NA)	107.9	300.9	(NA)	(NA)	(NA)
1927 <sup>13</sup> .....	1,108	(NA)	(NA)	(NA)	78.9	(NA)	102.9	273.7	(NA)	(NA)	(NA)
1925 <sup>14</sup> .....	1,286	(NA)	88.0	124.4	73.0	(NA)	91.0	263.1	(NA)	(NA)	(NA)
1923 <sup>15</sup> .....	1,593	(NA)	93.2	127.3	76.6	(NA)	91.8	244.9	(NA)	(NA)	(NA)
1921.....	1,592	(NA)	82.9	108.8	67.2	(NA)	77.8	188.8	(NA)	(NA)	(NA)
1919.....	2,037	(NA)	108.7	124.8	90.6	(NA)	93.0	235.6	(NA)	(NA)	(NA)
1914.....	1,572	(NA)	71.0	50.0	59.9	(NA)	35.8	97.6	(NA)	(NA)	(NA)
1909 <sup>16</sup> .....	1,239	(NA)	(NA)	(NA)	50.8	(NA)	28.1	73.1	(NA)	(NA)	(NA)
1904.....	1,027	(NA)	46.4	26.3	41.9	(NA)	21.3	46.3	(NA)	(NA)	(NA)
1899.....	1,101	(NA)	34.8	18.2	32.1	(NA)	15.2	31.6	(NA)	(NA)	(NA)

(X) Not applicable. (NA) Not available.

<sup>1</sup>The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.<sup>2</sup>For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.<sup>3</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.<sup>4</sup>The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.<sup>5</sup>Data for 1972 are not directly comparable to 1971 and earlier years. See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.<sup>6</sup>The figures for 1947 and later years include establishments primarily engaged in the manufacture of automatic temperature controls.<sup>7</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufacturing volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, or prior to 1949.<sup>8</sup>Figures for 1958 to 1972 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification system. Prior to 1958, data for the following commodities were excluded: Laboratory precision balances; laboratory furniture; revolution counters; operating room and other hospital furniture; surgical corsets; and hearing aids. Establishments primarily engaged in the manufacture of sanitary napkins and tampons are included prior to 1958.

Footnotes continued on next page.



TABLE 1. General Statistics: 1972 and Earlier Years—Continued

(Footnotes for table 1)--Continued

<sup>11</sup>The figures for 1899 to 1935 exclude, whereas those for later years include, data for establishments primarily engaged in the manufacture of certain mechanical measuring instruments. Value added by manufacture for 1937, excluding data for these establishments and on a basis comparable with 1935, was \$294.5 million.

<sup>12</sup>The figures for 1899 to 1933 exclude, whereas those for later years include, data for establishments primarily engaged in manufacture of certain dental equipment and supplies (chairs, cabinets, and electrical devices).

<sup>13</sup>The figures for 1899 to 1927 include, whereas those for later years exclude, data for establishments primarily engaged in manufacture of gas machines. Value added by manufacture for 1929, including data for these establishments and on a basis comparable with 1927, was \$306.3 million.

<sup>14</sup>The figures for 1899 to 1925 include, whereas those for later years exclude, data for dental laboratories operating on a custom basis. Value added by manufacture for 1927, including data for these laboratories and on a basis comparable with 1925, was \$280.3 million.

<sup>15</sup>The figures for 1899 to 1923 include, whereas those for later years exclude, data for establishments primarily engaged in grinding lenses for spectacles and eyeglasses to individual prescription.

<sup>16</sup>The figures for 1899 to 1909 exclude, whereas those for 1914 and later years include, data for establishments primarily engaged in manufacture of motion picture machines. Value added by manufacture for 1914, excluding data for such establishments, was \$96.4 million.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
38	INSTRUMENTS, RELATED PRODUCTS, . .	5 983	2 066	453.2	4 286.2	291.4	568.5	2 231.8	10 580.1	5 058.2	15 526.7	480.0	(NA)	(NA)
	NORTHEAST REGION . . . . .	2 213	839	219.8	2 225.6	134.4	262.7	1 119.7	6 062.5	2 561.8	8 620.7	263.0	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	627	267	67.3	609.5	42.3	81.1	309.8	1 423.0	749.6	2 139.2	82.6	(NA)	(NA)
	MAINE . . . . .	12	4	.3	1.9	.2	.4	1.3	3.6	4.0	7.4	.1	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	39	19	4.6	34.3	3.5	6.8	20.6	82.7	33.8	113.1	2.9	(NA)	(NA)
	VERMONT . . . . .	15	7	1.3	10.4	.9	1.9	6.1	19.1	7.2	27.1	.5	(NA)	(NA)
	MASSACHUSETTS . . . . .	346	127	37.0	350.7	21.4	40.6	171.1	877.5	430.8	1 297.9	60.4	(NA)	(NA)
	RHODE ISLAND . . . . .	34	17	5.3	37.7	4.4	8.3	26.8	70.8	37.8	105.6	1.8	(NA)	(NA)
	CONNECTICUT . . . . .	181	93	18.9	174.6	11.8	23.1	83.9	369.4	236.0	588.2	16.9	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	1 586	572	151.5	1 616.2	92.0	181.4	807.2	4 639.5	1 812.2	6 481.4	180.4	(NA)	(NA)
	NEW YORK . . . . .	835	289	96.4	1 094.3	57.2	112.5	540.1	3 535.8	1 197.5	4 770.3	128.0	(NA)	(NA)
	NEW JERSEY . . . . .	382	142	22.5	222.7	14.2	27.6	109.3	506.2	285.8	787.2	33.3	(NA)	(NA)
	PENNSYLVANIA . . . . .	369	141	32.7	299.1	20.6	41.3	157.8	601.5	329.0	924.0	19.1	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	1 432	529	109.5	967.4	73.0	141.3	532.7	2 103.5	1 200.1	3 275.9	81.4	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	1 111	423	88.8	787.8	58.5	113.4	429.7	1 637.5	970.8	2 583.8	61.6	(NA)	(NA)
	OHIO . . . . .	293	117	19.4	164.7	12.8	25.1	89.2	307.2	157.9	461.4	11.4	(NA)	(NA)
	INDIANA . . . . .	111	43	8.5	71.6	6.0	11.8	41.5	196.1	104.5	292.4	6.6	(NA)	(NA)
	ILLINOIS . . . . .	420	160	44.5	404.7	28.1	54.4	212.0	848.9	541.4	1 388.7	34.9	(NA)	(NA)
	MICHIGAN . . . . .	196	67	9.3	87.7	4.9	9.4	52.5	164.4	94.6	254.1	4.3	(NA)	(NA)
	WISCONSIN . . . . .	91	36	7.1	59.0	4.9	9.4	34.4	120.9	72.4	187.2	4.4	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	321	106	20.7	179.7	14.6	28.0	103.0	466.1	229.4	691.1	19.8	(NA)	(NA)
	MINNESOTA . . . . .	107	34	9.8	90.7	6.7	12.9	51.5	225.9	103.9	330.2	8.2	(NA)	(NA)
	IOWA . . . . .	44	12	2.5	25.5	1.6	3.1	12.8	49.3	24.1	73.1	2.8	(NA)	(NA)
	MISSOURI . . . . .	92	37	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH OAKOTA . . . . .	4	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA . . . . .	27	9	2.9	19.5	2.6	5.1	16.1	82.4	35.5	117.5	2.9	(NA)	(NA)
	KANSAS . . . . .	42	12	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	SOUTH REGION . . . . .	932	275	52.0	366.2	39.2	75.9	223.9	947.2	545.8	1 485.4	49.8	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	471	140	26.5	196.1	19.4	37.4	112.9	472.9	263.1	736.4	25.1	(NA)	(NA)
	DELAWARE . . . . .	15	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MARYLAND . . . . .	86	27	2.9	24.2	2.0	3.8	12.5	48.6	22.4	70.4	2.1	(NA)	(NA)
	VIRGINIA . . . . .	57	20	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST VIRGINIA . . . . .	17	5	.8	6.6	.6	1.2	4.0	49.3	11.5	60.1	.8	(NA)	(NA)
	NORTH CAROLINA . . . . .	60	23	8.2	61.2	6.3	12.6	37.5	141.1	91.4	232.3	8.2	(NA)	(NA)
	SOUTH CAROLINA . . . . .	20	10	3.9	23.9	3.3	6.5	17.9	78.3	47.8	128.1	2.4	(NA)	(NA)
	GEORGIA . . . . .	51	14	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	FLORIDA . . . . .	156	35	5.4	38.2	3.6	6.7	20.0	68.4	41.6	112.0	7.3	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	127	45	10.1	65.1	8.2	16.1	43.5	178.8	103.1	273.5	12.0	(NA)	(NA)
	KENTUCKY . . . . .	32	13	4.2	27.8	3.6	7.3	19.8	77.8	47.2	125.3	2.8	(NA)	(NA)
	TENNESSEE . . . . .	46	15	2.9	19.6	2.1	4.1	11.4	49.6	27.0	74.8	1.7	(NA)	(NA)
	ALABAMA . . . . .	36	12	1.4	9.2	1.1	1.8	5.8	24.0	18.4	40.6	5.7	(NA)	(NA)
	MISSISSIPPI . . . . .	13	5	1.6	8.5	1.5	2.9	6.5	28.0	10.5	32.8	2.0	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	334	90	15.3	105.2	11.6	22.4	67.5	295.6	179.6	475.6	13.7	(NA)	(NA)
	ARKANSAS . . . . .	13	5	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	LOUISIANA . . . . .	26	6	.4	3.7	.2	.5	1.7	8.1	3.0	11.1	.2	(NA)	(NA)
	OKLAHOMA . . . . .	54	14	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	TEXAS . . . . .	241	65	8.2	63.6	5.7	11.3	36.5	172.4	93.1	266.2	6.2	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					(million dollars)	(million dollars)
38	INSTRUMENTS, RELATED PRODUCTS-- CONTINUED													
	WEST REGION. . . . .	1 406	423	72.9	728.3	44.9	88.8	357.6	1 453.6	752.6	2 157.5	84.9	(NA)	(NA)
	MOUNTAIN DIVISION. . . . .	189	49	13.0	133.8	7.7	15.7	66.5	287.0	110.4	383.4	33.5	(NA)	(NA)
	COLORADO. . . . .	74	24	8.4	88.1	5.6	11.2	49.8	198.2	75.3	261.4	29.6	(NA)	(NA)
	NEW MEXICO. . . . .	12	4	.6	4.2	.4	.8	2.5	7.0	2.8	9.8	.4	(NA)	(NA)
	ARIZONA. . . . .	45	12	3.1	34.8	1.2	2.6	9.5	68.9	25.8	93.4	2.4	(NA)	(NA)
	UTAH. . . . .	33	3	.3	2.2	.2	.4	1.3	4.5	3.0	7.2	.1	(NA)	(NA)
	NEVADA. . . . .	5	2	.8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION. . . . .	1 217	374	59.9	594.4	37.2	73.1	291.1	1 166.6	642.2	1 774.1	51.4	(NA)	(NA)
	WASHINGTON. . . . .	66	19	2.8	26.6	1.9	3.4	15.3	56.4	22.4	78.6	1.7	(NA)	(NA)
	DRECON. . . . .	58	19	8.9	63.2	6.0	11.1	43.9	180.6	94.3	269.0	5.3	(NA)	(NA)
	CALIFORNIA. . . . .	1 084	335	48.1	484.0	29.2	58.4	231.4	927.3	524.4	1 423.2	44.4	(NA)	(NA)
381	ENGINEERING, SCIENTIFIC INSTRU. .	743	266	37.4	365.4	22.6	44.0	185.9	680.9	368.5	1 042.0	19.0	(NA)	(NA)
	NORTHEAST REGION. . . . .	285	106	11.6	114.1	7.5	14.5	62.0	211.5	112.8	324.0	5.0	11.9	156.7
	NEW ENGLAND DIVISION. . . . .	104	37	3.6	35.2	2.2	4.1	18.4	68.9	35.7	99.5	2.3	(NA)	(NA)
	MAINE. . . . .	4	3	.4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS. . . . .	63	16	2.0	21.5	1.3	2.3	12.0	44.9	19.7	60.6	(0)	(NA)	(NA)
	RHODE ISLAND. . . . .	7	3	.2	1.3	.1	.2	.8	2.5	1.1	3.6	(0)	(NA)	(NA)
	CONNECTICUT. . . . .	24	12	1.1	9.6	.6	1.1	4.0	16.5	9.3	25.1	1.1	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION. . . . .	181	69	8.0	78.9	5.3	10.4	43.6	142.5	77.1	224.5	2.7	(NA)	(NA)
	NEW YORK. . . . .	68	24	4.0	42.6	2.6	5.2	23.2	68.7	36.1	111.4	1.4	(NA)	(NA)
	NEW JERSEY. . . . .	53	20	1.9	18.7	1.3	2.5	10.7	34.9	20.5	53.0	.9	(NA)	(NA)
	PENNSYLVANIA. . . . .	60	25	2.0	17.6	1.3	2.7	9.6	38.8	20.4	59.9	.5	(NA)	(NA)
	NORTH CENTRAL REGION. . . . .	171	60	12.6	118.5	8.0	15.6	64.9	201.4	124.2	332.8	6.1	16.6	213.4
	EAST NORTH CENTRAL DIVISION. . . . .	132	47	10.5	97.4	6.9	13.2	55.7	163.9	107.1	279.8	4.4	(NA)	(NA)
	OHIO. . . . .	29	5	.6	4.8	.4	.8	3.1	8.5	4.9	13.2	.4	(NA)	(NA)
	INDIANA. . . . .	7	4	.6	5.3	.4	.8	2.1	8.6	4.6	13.4	.3	(NA)	(NA)
	ILLINOIS. . . . .	56	21	3.4	30.8	1.9	3.6	14.1	53.5	38.3	104.5	1.7	(NA)	(NA)
	MICHIGAN. . . . .	27	12	3.5	35.2	2.6	5.0	25.2	59.0	34.2	90.8	1.2	(NA)	(NA)
	WISCONSIN. . . . .	13	5	2.4	21.3	1.5	3.0	11.3	34.4	25.1	58.1	.8	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	39	13	2.2	21.0	1.3	2.4	9.2	37.5	17.1	53.0	1.7	(NA)	(NA)
	MINNESOTA. . . . .	8	3	.7	7.2	.4	.8	3.2	12.9	5.7	18.2	.4	(NA)	(NA)
	IOWA. . . . .	5	3	1.0	9.5	.5	1.0	3.9	16.6	7.1	23.3	1.1	(NA)	(NA)
	KANSAS. . . . .	12	1	.2	2.0	.2	.3	.9	3.6	1.3	4.3	.1	(NA)	(NA)
	SOUTH REGION. . . . .	112	43	4.6	37.4	2.7	5.2	18.6	66.4	39.7	108.7	2.1	7.7	90.9
	SOUTH ATLANTIC DIVISION. . . . .	59	21	2.5	18.3	1.6	2.9	9.5	31.4	22.2	57.1	1.0	(NA)	(NA)
	MARYLAND. . . . .	21	7	.7	5.6	.4	.8	2.9	12.4	6.6	19.1	.7	(NA)	(NA)
	NORTH CAROLINA. . . . .	7	3	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	FLORIDA. . . . .	17	6	1.0	5.5	.6	.8	2.6	4.3	4.7	12.5	.1	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . . .	8	4	.6	5.3	.2	.5	1.7	12.2	3.7	15.1	.2	(NA)	(NA)
	TENNESSEE. . . . .	3	2	.8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . . .	45	18	1.6	13.8	.9	1.8	7.5	22.9	13.7	36.6	.8	(NA)	(NA)
	TEXAS. . . . .	39	16	1.5	13.3	.9	1.7	7.3	21.8	13.2	35.0	.8	(NA)	(NA)
	WEST REGION. . . . .	174	56	8.3	92.5	4.2	8.4	39.5	179.8	88.5	267.0	5.7	9.9	156.4
	MOUNTAIN DIVISION. . . . .	25	6	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	COLORADO. . . . .	13	2	.4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	ARIZONA. . . . .	9	4	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	PACIFIC DIVISION. . . . .	150	51	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	WASHINGTON. . . . .	10	5	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	OREGON. . . . .	6	4	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CALIFORNIA. . . . .	133	42	4.8	51.9	2.7	5.5	23.9	106.2	60.3	165.6	3.5	(NA)	(NA)
382	MEASURING, CONTROLLING DEVICES. .	1 611	643	152.8	1 436.5	94.5	186.7	714.0	2 723.5	1 387.8	3 992.4	104.8	(NA)	(NA)
	NORTHEAST REGION. . . . .	552	249	54.3	515.6	31.4	61.7	236.8	929.0	469.1	1 395.6	34.6	(NA)	(NA)
	NEW ENGLAND DIVISION. . . . .	179	85	23.3	216.7	13.0	25.3	92.1	365.3	171.3	534.2	13.1	(NA)	(NA)
	NEW HAMPSHIRE. . . . .	15	10	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	VERMONT. . . . .	6	3	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MASSACHUSETTS. . . . .	84	34	12.6	124.9	5.8	11.7	45.3	201.1	91.3	290.5	7.4	(NA)	(NA)
	RHODE ISLAND. . . . .	4	3	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	CONNECTICUT. . . . .	65	34	5.7	53.7	3.4	6.2	24.6	78.9	46.5	126.4	2.9	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION. . . . .	373	164	31.0	298.9	18.4	36.4	144.7	563.6	297.8	861.2	21.6	(NA)	(NA)
	NEW YORK. . . . .	157	70	8.7	82.8	4.8	9.2	35.0	157.3	98.3	260.0	4.5	(NA)	(NA)
	NEW JERSEY. . . . .	111	46	4.5	43.2	2.9	5.3	20.7	69.0	35.8	106.4	7.3	(NA)	(NA)
	PENNSYLVANIA. . . . .	105	48	17.8	172.9	10.8	21.9	89.0	337.4	163.8	495.1	9.7	(NA)	(NA)
	NORTH CENTRAL REGION. . . . .	391	164	49.3	441.4	32.2	62.6	238.9	894.9	413.3	1 295.4	32.3	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION. . . . .	324	146	40.6	358.4	26.2	51.3	190.7	698.8	333.2	1 021.5	27.7	(NA)	(NA)
	OHIO. . . . .	108	56	14.1	123.1	9.0	17.6	65.1	222.7	102.3	321.6	8.4	(NA)	(NA)
	INDIANA. . . . .	30	14	3.2	26.7	2.3	4.7	16.6	55.9	27.3	80.9	2.1	(NA)	(NA)
	ILLINOIS. . . . .	91	40	18.8	167.1	12.0	23.1	87.7	334.6	161.0	492.5	14.2	(NA)	(NA)
	MICHIGAN. . . . .	67	24	2.6	25.1	1.6	3.4	12.2	49.4	25.4	72.6	1.4	(NA)	(NA)
	WISCONSIN. . . . .	30	12	1.9	16.5	1.3	2.4	9.0	38.4	17.4	53.6	1.6	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . . .	67	18	8.7	83.0	6.0	11.3	48.2	193.9	80.0	271.2	4.6	(NA)	(NA)
	MINNESOTA. . . . .	18	4	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	IOWA. . . . .	17	3	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	MISSOURI. . . . .	16	7	1.5	15.5	.8	1.5	6.6	40.3	20.3	58.5	.4	(NA)	(NA)
	SOUTH DAKOTA. . . . .	1	1	.6	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
	NEBRASKA. . . . .	3	1	.8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>3</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total (number)	With 20 employ- ees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)						
382	MEASURING, CONTROLLING DEVICES-- CONTINUED													
	SOUTH REGION . . . . .	248	80	12.3	93.4	8.8	17.5	52.9	213.0	100.5	314.0	7.9	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	90	27	6.6	48.4	4.7	9.4	26.9	106.1	39.7	145.8	3.6	(NA)	(NA)
	MARYLAND . . . . .	20	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA . . . . .	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	10	5	2.8	21.8	2.1	4.3	12.9	47.3	16.3	61.9	2.1	(NA)	(NA)
	SOUTH CAROLINA . . . . .	7	4	1.4	8.1	1.2	2.3	5.9	21.2	8.0	31.3	.6	(NA)	(NA)
	GEORGIA . . . . .	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA . . . . .	24	5	.5	3.7	.3	.8	1.9	6.3	2.3	8.4	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	37	14	2.6	17.7	2.0	3.9	11.6	47.3	26.1	72.5	1.2	(NA)	(NA)
	KENTUCKY . . . . .	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE . . . . .	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ALABAMA . . . . .	10	2	.2	1.8	.2	.3	1.0	4.6	3.2	7.8	.1	(NA)	(NA)
	MISSISSIPPI . . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	121	39	3.3	27.3	2.1	4.2	14.3	59.6	34.7	95.7	3.0	(NA)	(NA)
	ARKANSAS . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OKLAHOMA . . . . .	26	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS . . . . .	91	28	2.4	21.0	1.6	3.1	10.7	46.8	24.5	73.0	1.8	(NA)	(NA)
	WEST REGION . . . . .	420	150	36.9	387.8	22.4	45.3	187.9	690.2	341.5	1 001.9	30.2	(NA)	(NA)
	MOUNTAIN DIVISION . . . . .	52	17	6.7	70.6	4.5	9.1	42.9	129.6	46.8	171.7	4.3	(NA)	(NA)
	COLORADO . . . . .	21	8	5.6	61.7	3.9	7.9	37.8	112.3	40.4	149.1	(D)	(NA)	(NA)
	NEW MEXICO . . . . .	5	3	.5	3.8	.3	.7	2.2	6.1	2.7	8.8	.3	(NA)	(NA)
	ARIZONA . . . . .	12	2	.2	2.0	.1	.2	.7	5.5	1.4	6.0	.2	(NA)	(NA)
	NEVADA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	368	133	30.2	317.2	17.9	36.2	145.0	560.6	294.8	830.2	25.8	(NA)	(NA)
	WASHINGTON . . . . .	19	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON . . . . .	13	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	336	122	23.5	247.9	13.7	28.1	113.3	429.0	237.7	646.0	21.8	(NA)	(NA)
383	OPTICAL INSTRUMENTS AND LENSES . . . . .	494	146	18.8	193.3	10.4	20.6	85.1	384.3	175.4	538.4	12.7	(NA)	(NA)
	NORTHEAST REGION . . . . .	219	63	8.6	94.7	4.7	9.7	40.8	211.3	84.8	271.9	4.4	(NA)	(NA)
	NEW ENGLAND DIVISION . . . . .	63	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS . . . . .	50	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT . . . . .	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	156	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK . . . . .	90	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY . . . . .	35	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA . . . . .	31	7	.9	8.7	.6	1.1	4.6	19.4	7.2	24.7	.4	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	89	26	2.3	19.7	1.3	2.4	9.4	38.1	20.5	58.6	1.6	(NA)	(NA)
	EAST NORTH CENTRAL DIVISION . . . . .	68	18	1.8	15.5	1.0	1.8	7.2	28.7	16.5	45.3	1.3	(NA)	(NA)
	OHIO . . . . .	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS . . . . .	29	8	.7	6.3	.4	.7	2.9	13.0	7.8	20.9	.3	(NA)	(NA)
	MICHIGAN . . . . .	15	4	.4	3.9	.3	.5	1.9	5.3	3.6	9.2	.1	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION . . . . .	21	8	.5	4.2	.3	.7	2.2	9.4	3.9	13.3	.4	(NA)	(NA)
	MISSOURI . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION . . . . .	59	15	2.2	20.2	1.3	2.4	9.1	33.9	14.9	47.9	2.4	(NA)	(NA)
	SOUTH ATLANTIC DIVISION . . . . .	39	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DELAWARE . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND . . . . .	8	3	.2	1.8	.1	.1	.5	3.0	1.7	4.8	(2)	(NA)	(NA)
	VIRGINIA . . . . .	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA . . . . .	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	15	3	.6	4.3	.5	1.0	3.1	10.0	3.1	13.3	(D)	(NA)	(NA)
	TEXAS . . . . .	12	3	.6	4.2	.5	1.0	3.0	9.5	2.9	12.7	(D)	(NA)	(NA)
	WEST REGION . . . . .	127	42	5.8	58.8	3.0	6.1	25.8	101.0	55.2	160.0	4.2	(NA)	(NA)
	PACIFIC DIVISION . . . . .	114	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	103	38	5.3	54.6	2.7	5.5	23.6	92.4	51.7	148.9	(D)	(NA)	(NA)
384	MEDICAL INSTRUMENTS, SUPPLIES . . . . .	1 807	562	90.8	757.7	62.6	122.7	417.2	1 821.3	1 042.9	2 824.5	104.4	(NA)	(NA)
	NORTHEAST REGION . . . . .	597	208	39.2	354.2	25.6	50.4	183.9	772.2	444.7	1 210.1	42.5	32.6	459.6
	NEW ENGLAND DIVISION . . . . .	149	58	9.8	80.5	6.8	13.3	44.4	167.8	100.7	267.5	8.8	8.1	91.6
	NEW HAMPSHIRE . . . . .	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS . . . . .	78	29	3.5	33.3	2.0	3.9	13.1	62.5	37.8	98.6	3.5	2.8	31.5
	RHODE ISLAND . . . . .	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	5.6
	CONNECTICUT . . . . .	46	21	3.8	29.6	2.9	5.8	19.1	70.3	46.7	118.2	4.5	4.5	53.5
	MIDDLE ATLANTIC DIVISION . . . . .	448	150	29.4	273.7	18.8	37.2	139.5	604.3	344.0	942.7	33.7	23.9	347.8
	NEW YORK . . . . .	244	71	10.7	94.7	7.2	14.3	50.5	203.6	111.7	308.2	8.8	9.5	122.8
	NEW JERSEY . . . . .	98	37	9.4	99.5	5.7	11.1	47.7	242.4	138.2	380.7	19.4	7.0	129.2
	PENNSYLVANIA . . . . .	106	42	9.3	79.4	6.0	11.8	41.3	158.2	94.0	253.8	5.5	7.4	95.9
	NORTH CENTRAL REGION . . . . .	462	167	22.8	191.6	15.6	30.5	107.5	514.9	293.4	787.1	21.5	17.8	281.3
	EAST NORTH CENTRAL DIVISION . . . . .	336	128	17.4	151.7	11.3	22.1	81.7	393.3	233.8	607.7	14.4	14.3	227.7
	OHIO . . . . .	97	41	3.4	25.3	2.5	4.9	15.1	51.1	37.0	87.3	1.2	2.9	32.3
	INDIANA . . . . .	42	15	2.8	23.3	1.9	3.6	12.5	75.4	36.1	105.5	2.7	1.0	21.2
	ILLINOIS . . . . .	121	44	8.3	77.9	5.0	9.9	40.4	208.7	122.2	321.3	8.6	7.0	132.1
	MICHIGAN . . . . .	46	16	1.7	14.7	1.1	2.2	7.6	33.4	21.4	54.2	.8	1.6	19.6
	WISCONSIN . . . . .	30	12	1.2	10.0	.9	1.6	6.1	24.6	17.1	39.4	1.0	1.7	22.5

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
384	MEDICAL INSTRUMENTS, SUPPLIES-- CONTINUED													
	NORTH CENTRAL REGION--CONTINUED													
	WEST NORTH CENTRAL DIVISION. . . .	126	39	5.5	40.4	4.3	8.4	25.8	121.6	59.6	179.4	7.2	3.5	53.5
	MINNESOTA. . . . .	47	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	9.7
	IOWA. . . . .	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI. . . . .	37	15	1.8	11.9	1.3	2.4	7.0	18.8	19.4	37.3	.9	1.3	13.8
	SOUTH DAKOTA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA. . . . .	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	SOUTH REGION. . . . .	329	82	15.9	108.9	12.4	24.2	68.8	293.8	170.2	460.3	24.0	9.3	115.4
	SOUTH ATLANTIC DIVISION. . . . .	185	48	8.8	61.5	6.8	13.2	37.5	139.8	100.1	237.2	10.4	5.2	64.4
	DELAWARE. . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	MARYLAND. . . . .	23	3	.3	2.1	.2	.4	1.2	3.7	2.2	5.9	.7	.6	5.3
	VIRGINIA. . . . .	17	5	.3	2.5	.2	.4	1.6	5.3	2.6	7.7	.5	(NA)	(NA)
	NORTH CAROLINA. . . . .	25	10	2.7	17.3	2.4	4.6	12.2	24.6	31.6	55.4	2.9	1.0	d.3
	SOUTH CAROLINA. . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	GEORGIA. . . . .	25	9	.7	4.5	.6	1.1	2.8	13.0	7.8	19.5	.8	(NA)	(NA)
	FLORIDA. . . . .	69	11	1.8	13.8	1.2	2.4	7.5	29.2	16.5	45.4	4.0	1.1	16.6
	EAST SOUTH CENTRAL DIVISION. . . .	53	17	3.6	22.4	3.0	5.9	15.7	58.1	32.0	89.3	5.0	FF	(D)
	KENTUCKY. . . . .	16	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	TENNESSEE. . . . .	19	7	1.2	8.4	.9	1.8	5.5	22.0	12.4	34.0	1.1	EE	(D)
	ALABAMA. . . . .	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	91	17	3.5	24.9	2.6	5.0	15.6	95.9	38.1	133.8	8.3	EE	(D)
	ARKANSAS. . . . .	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS. . . . .	62	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST REGION. . . . .	419	105	12.8	103.0	9.0	17.6	57.0	240.5	134.6	367.0	16.3	7.7	109.3
	MOUNTAIN DIVISION. . . . .	61	15	1.8	14.6	1.3	2.6	8.0	30.0	15.0	44.3	5.6	CC	(D)
	COLORADO. . . . .	19	9	1.2	10.2	.8	1.6	5.2	20.2	9.1	28.9	4.5	.6	6.4
	ARIZONA. . . . .	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH. . . . .	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	PACIFIC DIVISION. . . . .	358	90	11.0	88.4	7.4	15.1	49.0	210.5	119.7	322.7	10.7	FF	(D)
	WASHINGTON. . . . .	19	4	.8	5.2	.6	1.3	3.7	17.2	5.3	23.8	.4	BB	(D)
	OREGON. . . . .	23	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA. . . . .	312	79	9.6	78.7	6.7	13.0	42.6	183.0	106.8	281.5	9.9	6.4	94.5
385	OPHTHALMIC GOODS. . . . .	499	125	26.6	183.4	20.5	39.8	129.9	416.3	180.1	568.3	17.4	(NA)	(NA)
	NORTHEAST REGION. . . . .	198	63	19.9	139.4	15.1	29.6	100.3	320.4	130.6	426.4	11.3	17.9	205.4
	NEW ENGLAND DIVISION. . . . .	50	24	9.4	62.3	7.0	13.5	47.0	175.5	69.3	226.2	6.5	(NA)	(NA)
	NEW HAMPSHIRE. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VERMONT. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS. . . . .	30	13	6.9	45.7	4.9	9.4	35.0	133.6	43.3	159.7	5.3	(NA)	(NA)
	RHODE ISLAND. . . . .	10	5	1.3	8.8	1.1	2.2	6.0	18.4	12.2	28.6	.9	(NA)	(NA)
	CONNECTICUT. . . . .	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION. . . . .	148	39	10.4	77.1	8.1	16.2	53.3	144.9	61.3	200.2	4.8	(NA)	(NA)
	NEW YORK. . . . .	92	26	8.4	63.7	6.5	12.9	43.5	113.8	46.4	155.0	3.6	(NA)	(NA)
	NEW JERSEY. . . . .	22	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA. . . . .	34	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION. . . . .	126	29	2.9	19.9	2.2	4.2	12.7	39.3	21.6	59.7	2.7	3.2	31.4
	EAST NORTH CENTRAL DIVISION. . . .	90	14	1.7	13.0	1.3	2.4	7.7	23.6	14.0	37.0	1.3	(NA)	(NA)
	OHIO. . . . .	23	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA. . . . .	12	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ILLINOIS. . . . .	30	6	.4	6.7	.6	1.1	3.3	12.1	8.3	20.5	.9	(NA)	(NA)
	MICHIGAN. . . . .	20	3	1.2	1.8	.2	.3	1.2	3.2	1.7	4.8	.3	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	36	15	1.2	6.9	1.0	1.8	5.0	15.7	7.6	22.6	1.3	(NA)	(NA)
	MINNESOTA. . . . .	10	6	.5	3.2	.5	.8	2.5	8.7	3.9	12.2	.6	(NA)	(NA)
	MISSOURI. . . . .	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION. . . . .	91	17	2.8	16.1	2.3	4.3	11.7	41.2	17.7	57.7	2.2	3.4	39.5
	SOUTH ATLANTIC DIVISION. . . . .	42	12	2.4	13.9	2.0	3.8	10.3	36.8	16.6	52.1	2.0	(NA)	(NA)
	MARYLAND. . . . .	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	VIRGINIA. . . . .	4	1	.2	.8	.2	.2	.5	1.0	.3	1.4	(Z)	(NA)	(NA)
	SOUTH CAROLINA. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA. . . . .	19	7	1.2	6.7	.9	1.7	4.6	18.9	9.4	27.3	1.5	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	37	5	.3	1.9	.3	.5	1.2	3.9	1.0	4.9	.1	(NA)	(NA)
	TEXAS. . . . .	19	4	.2	1.3	.2	.3	.9	2.6	.5	3.1	.1	(NA)	(NA)
	WEST REGION. . . . .	84	16	1.1	8.0	.9	1.7	5.2	15.6	10.2	24.5	1.2	.9	9.6
	MOUNTAIN DIVISION. . . . .	19	4	.2	1.2	.2	.3	.9	2.5	1.7	4.2	.1	(NA)	(NA)
	PACIFIC DIVISION. . . . .	65	12	.9	6.7	.7	1.4	4.3	13.1	8.5	20.4	1.1	(NA)	(NA)
	WASHINGTON. . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA. . . . .	51	9	.6	4.2	.5	.9	2.8	8.1	4.4	11.9	.9	(NA)	(NA)
386	PHOTOGRAPHIC EQUIP., SUPPLIES. . .	627	225	96.0	119.7	56.0	107.0	545.4	4 087.9	1 487.9	5 623.9	202.9	(NA)	(NA)
	NORTHEAST REGION. . . . .	247	86	70.5	879.8	39.3	75.6	419.3	3 384.4	1 054.3	4 494.9	155.3	67.5	2 034.2
	NEW ENGLAND DIVISION. . . . .	56	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS. . . . .	31	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	RHODE ISLAND. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT. . . . .	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION. . . . .	191	63	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW YORK. . . . .	113	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEW JERSEY. . . . .	52	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA. . . . .	26	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
386	PHOTOGRAPHIC EQUIP., SUPPLIES-- CONTINUED													
	NORTH CENTRAL REGION . . . . .	158	65	14.6	134.0	9.4	18.1	70.3	340.4	249.9	591.8	12.8	15.1	260.3
	EAST NORTH CENTRAL DIVISION. . . .	129	54	11.9	109.7	7.7	14.8	57.8	252.3	189.6	440.7	9.4	(NA)	(NA)
	OHIO . . . . .	22	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA . . . . .	8	5	1.2	11.0	.9	1.6	6.1	44.5	31.3	75.4	1.0	(NA)	(NA)
	ILLINOIS . . . . .	77	35	9.5	89.5	6.1	11.6	46.7	185.2	144.2	329.4	7.3	(NA)	(NA)
	MICHIGAN . . . . .	14	3	.3	2.1	.2	.4	1.4	5.0	3.2	8.0	.4	(NA)	(NA)
	WISCONSIN . . . . .	8	5	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NORTH CENTRAL DIVISION. . . .	29	11	2.7	24.2	1.7	3.3	12.5	88.1	60.2	151.1	3.4	(NA)	(NA)
	MINNESOTA . . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSOURI . . . . .	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NEBRASKA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KANSAS . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SOUTH REGION . . . . .	67	23	3.4	32.3	2.1	4.0	15.8	145.5	67.7	216.1	7.8	5.9	87.5
	SOUTH ATLANTIC DIVISION. . . . .	44	16	2.6	24.7	1.7	3.1	12.5	108.4	49.5	160.5	4.6	(NA)	(NA)
	MARYLAND . . . . .	7	4	.2	2.5	.2	.3	1.6	5.2	1.4	6.6	(Z)	(NA)	(NA)
	VIRGINIA . . . . .	5	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST VIRGINIA . . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	FLORIDA . . . . .	13	3	.6	4.5	.4	.6	1.7	3.8	5.8	9.5	(D)	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION. . . .	5	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	KENTUCKY . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION. . . .	18	5	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	LOUISIANA . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS . . . . .	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION. . . . .	155	51	7.5	73.6	5.1	9.3	40.5	217.6	116.1	321.1	26.9	6.4	98.7
	MOUNTAIN DIVISION. . . . .	16	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORADO . . . . .	9	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	139	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	OREGON . . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	129	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
387	WATCHES, CLOCKS, AND WATCHCASES. .	202	99	30.8	230.3	24.7	47.6	153.8	466.0	482.0	937.2	18.8	(NA)	(NA)
	NORTHEAST REGION . . . . .	115	64	14.8	127.9	10.8	21.1	76.6	233.8	265.5	497.8	9.8	22.1	246.1
	NEW ENGLAND DIVISION . . . . .	26	15	7.3	61.2	5.6	10.8	37.9	117.0	101.5	217.6	6.3	11.4	143.9
	MASSACHUSETTS. . . . .	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	RHODE ISLAND . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	CONNECTICUT . . . . .	13	10	4.5	39.2	3.1	6.1	21.1	81.9	82.0	164.2	5.0	6.8	77.8
	MIDDLE ATLANTIC DIVISION . . . . .	89	49	7.4	66.7	5.2	10.2	38.7	116.8	164.0	280.2	3.5	10.7	102.2
	NEW YORK . . . . .	71	36	5.7	53.3	3.9	7.8	30.5	96.2	138.4	234.5	2.8	FF	(D)
	NEW JERSEY . . . . .	11	8	1.0	7.8	.8	1.5	5.1	11.3	9.9	21.7	.5	.9	8.9
	PENNSYLVANIA . . . . .	7	5	.7	5.6	.5	1.0	3.0	9.2	15.8	24.0	.1	FF	(D)
	NORTH CENTRAL REGION . . . . .	36	19	5.1	43.4	4.2	8.0	29.4	76.6	78.7	153.8	4.4	7.8	86.6
	EAST NORTH CENTRAL DIVISION. . . .	32	16	5.0	42.5	4.1	7.8	28.8	74.6	76.6	150.2	3.1	FF	(D)
	INDIANA . . . . .	4	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
	ILLINOIS . . . . .	17	7	3.0	27.4	2.3	4.6	17.5	43.7	60.4	102.1	2.0	5.3	57.0
	MICHIGAN . . . . .	7	5	.5	4.1	.4	.8	2.7	8.1	5.2	13.3	.2	.88	(D)
	WISCONSIN. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	SOUTH REGION . . . . .	26	15	10.7	57.9	9.6	18.3	47.0	153.4	135.0	280.7	4.4	5.1	58.8
	SOUTH ATLANTIC DIVISION. . . . .	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	VIRGINIA . . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	GEORGIA. . . . .	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	EAST SOUTH CENTRAL DIVISION. . . .	7	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	18.4
	KENTUCKY . . . . .	1	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TENNESSEE. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
	ALABAMA. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
	MISSISSIPPI. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST SOUTH CENTRAL DIVISION. . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	ARKANSAS . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS. . . . .	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

<sup>2</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Instruments and related products (SIC 38)	Engineering and scientific instruments (SIC 381)	Measuring and controlling devices (SIC 382)	Optical instruments and lenses (SIC 383)	Medical instruments and supplies (SIC 384)	Ophthalmic goods (SIC 385)	Photographic equipment and supplies (SIC 286)	Watches, clocks, and watchcases (SIC 387)
ESTABLISHMENTS, TOTAL . . . . .NUMBER .	5 983	743	1 611	494	1 807	499	627	202
WITH 1 TO 19 EMPLOYEES . . . . .00 .	3 917	477	968	348	1 245	374	402	103
WITH 20 TO 99 EMPLOYEES . . . . .00 .	1 306	193	374	101	374	76	136	52
WITH 100 EMPLOYEES OR MORE . . . . .00 .	760	73	269	45	188	49	89	47
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000 .	453.2	37.4	152.8	18.8	90.8	26.6	96.0	30.8
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . .MILLION DOLLARS .	4 286.2	365.4	1 426.5	193.3	757.7	183.4	1 119.7	230.3
PRODUCTION WORKERS:								
AVERAGE FOR YEAR, . . . . .1,000 .	291.4	22.6	94.5	10.4	62.6	20.5	56.0	24.7
MARCH . . . . .00 .	281.9	22.5	90.8	10.1	61.0	19.3	54.4	23.6
MAY . . . . .00 .	287.3	22.6	93.0	10.2	62.3	20.3	54.8	24.3
AUGUST . . . . .00 .	224.4	22.1	95.9	10.4	62.8	20.8	57.5	24.8
NOVEMBER . . . . .00 .	302.0	23.2	98.3	10.8	64.5	21.8	57.3	26.0
MAN-HOURS . . . . .MILLIONS .	568.5	44.6	186.9	20.6	122.7	39.8	107.0	47.6
JANUARY-MARCH . . . . .00 .	138.8	11.1	45.4	5.1	30.0	9.5	26.3	11.5
APRIL-JUNE . . . . .00 .	142.2	11.4	46.7	5.1	31.1	10.1	26.4	12.0
JULY-SEPTEMBER . . . . .00 .	137.8	10.6	45.5	5.0	29.6	9.6	26.3	11.3
OCTOBER-DECEMBER . . . . .00 .	149.8	11.5	49.2	5.5	32.1	10.7	28.1	12.8
WAGES . . . . .MILLION DOLLARS .	2 231.8	185.9	714.0	85.1	417.2	129.9	545.8	153.8
COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . .00 .	5 124.8	368.5	1 387.8	175.4	1 042.9	180.1	1 487.9	482.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .00 .	4 501.0	308.2	1 243.2	151.3	843.5	152.6	1 331.5	470.7
COST OF REALES . . . . .00 .	406.0	40.2	90.7	14.7	155.9	17.4	82.4	4.7
FUELS CONSUMED . . . . .00 .	43.1	2.2	7.0	1.1	5.7	3.5	22.2	1.5
PURCHASED ELECTRIC ENERGY . . . . .00 .	63.5	5.9	19.6	3.1	12.9	3.3	15.4	3.3
CONTRACT WORK . . . . .00 .	111.2	12.1	27.3	5.3	24.9	3.4	36.3	1.8
VALUE OF SHIPMENTS, INCLUDING REALES <sup>1</sup> . . . . .00 .	15 526.7	1 042.0	3 992.4	538.4	2 824.5	568.3	5 623.9	937.2
VALUE OF REALES . . . . .00 .	627.9	67.1	131.2	21.0	245.7	23.2	134.5	5.3
VALUE ADDED BY MANUFACTURE . . . . .00 .	10 580.1	680.9	2 723.5	384.3	1 821.3	416.3	4 087.9	466.0
MANUFACTURERS' INVENTORIES:								
BEGINNING OF YEAR, TOTAL . . . . .00 .	2 920.4	267.3	965.5	137.7	511.8	134.3	720.6	183.0
FINISHED PRODUCTS . . . . .00 .	955.7	74.7	228.3	48.4	199.5	61.3	278.0	65.6
WORK IN PROCESS . . . . .00 .	1 151.1	125.2	452.0	57.8	166.7	46.9	221.3	81.3
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 .	813.7	67.4	285.2	31.7	145.7	26.1	221.4	36.1
END OF YEAR, TOTAL . . . . .00 .	3 106.8	262.3	1 023.8	156.2	561.1	160.0	751.1	187.1
FINISHED PRODUCTS . . . . .00 .	882.5	62.7	229.9	50.0	215.7	70.2	179.5	73.0
WORK IN PROCESS . . . . .00 .	1 254.1	128.0	483.9	75.0	172.1	57.1	261.4	78.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 .	970.2	71.6	310.0	31.2	173.3	32.6	310.3	36.1
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .00 .	499.4	21.8	109.7	14.2	108.5	18.9	206.6	19.7
NEW PLANT AND EQUIPMENT, TOTAL . . . . .00 .	480.0	19.0	104.8	12.7	104.4	17.4	202.9	18.8
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .00 .	124.3	4.5	27.7	2.6	38.9	3.2	39.8	7.7
NEW MACHINERY AND EQUIPMENT . . . . .00 .	355.6	14.5	77.2	10.2	65.5	14.1	163.1	11.1
USED PLANT AND EQUIPMENT . . . . .00 .	19.5	2.8	4.9	1.5	4.1	1.5	3.7	.9

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



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# Engineering, Measuring and Controlling and Optical Instruments

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# EXPLANATORY TEXT

## ENGINEERING, MEASURING AND CONTROLLING AND OPTICAL INSTRUMENTS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3811—Engineering, Laboratory, Scientific, and Research Instruments and Associated Equipment\***
- 3822—Automatic Controls for Regulating Residential and Commercial Environments and Appliances\***
- 3823—Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products\***
- 3824—Totalizing Fluid Meters and Counting Devices\***
- 3825—Instruments for Measuring and Testing of Electricity and Electrical Signals\***
- 3829—Measuring and Controlling Devices, N.E.C.**
- 3832—Optical Instruments and Lenses**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3811.—ENGINEERING AND SCIENTIFIC INSTRUMENTS (Short Title)

This industry comprises establishments primarily engaged in manufacturing laboratory, scientific, and engineering instruments such as nautical, navigational, aeronautical, surveying, and drafting; and instruments for laboratory work and scientific research (except optical instruments, in industry 3832).

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\* Note that the "short title" for this industry is used throughout the report.

Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; measuring, analyzing, and controlling instruments, including instruments for measuring electrical quantities and characteristics, in SIC group 382; watches and clocks in industry 3873; machinists' precision measuring tools in industry 3545; and measuring and dispensing pumps in industry 3586. For a detailed list of products of industry 3811, refer to table 6A, product codes 38111 01 to 38113 89.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Engineering and Scientific Instruments Industry in 1972 totaled \$1,042 million. This included shipments of engineering and scientific instruments (primary products) valued at \$800 million, shipments of other products (secondary products) valued at \$129 million, and miscellaneous receipts (mainly resales) of \$113 million.

Shipments of engineering and scientific instruments (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 88 percent.

Shipments of engineering and scientific instruments (primary products) from establishments classified in industry 3811 in 1972 represented 72 percent (coverage ratio) of these products valued at \$1,106 million shipped by all industries. In 1967, the coverage ratio was 74 percent. Other industries shipping engineering and scientific instruments consisted mainly of industry 3662, Radio and TV Communication Equipment, (\$100 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3811, these establishments accounted for 7 percent of value of shipments.

### INDUSTRY 3822.—ENVIRONMENTAL CONTROLS (Short Title)

This industry comprises establishments primarily engaged in manufacturing temperature and related controls for heating



and air-conditioning installations and refrigeration applications, which are electrically, electronically, or pneumatically actuated, and which measure and control variables such as temperature and humidity; and automatic regulators used as components of household appliances.

Establishments primarily engaged in manufacturing industrial process controls are classified in industry 3823; motor control switches in industry 3622 (Industrial Controls); switches for household appliances in industry 3643 (Current-Carrying Wiring Devices); and appliance timers in industry 3873 (Watches, Clocks, and Watchcases).

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Environmental Controls Industry in 1972 totaled \$728 million. This included shipments of automatic temperature controls (primary products) valued at \$591 million, shipments of other products (secondary products) valued at \$99 million, and miscellaneous receipts (mainly resales) of \$38 million.

Shipments of automatic temperature controls (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 81 percent.

Shipments of automatic temperature controls (primary products) from establishments classified in industry 3822 in 1972 represented 90 percent (coverage ratio) of these products valued at \$658 million shipped by all industries. In 1967, the coverage ratio was 91 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3822, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3823.—PROCESS CONTROL INSTRUMENTS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing industrial instruments and related products for measuring, displaying (indicating and/or recording), transmitting, and controlling process variables in manufacturing, energy conversion, and public service utilities. These instruments operate mechanically, pneumatically, electronically, or electrically to measure process variables such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, alkalinity, specific gravity, gas and liquid

concentration, sequence, time interval, mechanical motion, and rotation.

Establishments primarily engaged in manufacturing electrical integrating meters are classified in industry 3825; residential and commercial comfort controls in industry 3822; all liquid-in-glass and bimetal thermometers and glass hydrometers in industry 3829; recorder charts in SIC group 275; and optical instruments in industry 3832.

The classification system followed in the 1967 census was split, as a result of the 1972 edition of the SIC manual, into three separate industries: Industry 3823, Process Control Instruments; industry 3824, Fluid Meters and Counting Devices; and industry 3829, Measuring and Controlling Devices, N.E.C., from old (1967) SIC industry 3821 (Mechanical Measuring Devices).

Value of shipments and other receipts of the Process Control Instruments Industry in 1972 totaled \$907 million. This included shipments of process control instruments (primary products) valued at \$657 million, shipments of other products (secondary products) valued at \$130 million, and miscellaneous receipts (mainly receipts for installation) of \$120 million.

Shipments of process control instruments (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of measuring and controlling devices (\$20 million).

Shipments of process control instruments (primary products) from establishments classified in industry 3823 in 1972 represented 83 percent (coverage ratio) of these products valued at \$795 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3823, these establishments accounted for less than 1 percent of value of shipments.

#### **INDUSTRY 3824.—FLUID METERS AND COUNTING DEVICES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing totalizing (registering) meters monitoring fluid flows, such as watermeters and gasmeters; and producers of mechanical and electromechanical counters and associated metering devices.

Establishments primarily engaged in manufacturing electricity integrating meters and electronic frequency counters are



classified in industry 3825; and industrial process instruments in industry 3823. For a detailed list of products of industry 3824, refer to table 6A, product codes 38242 22 to 38244 98.

The Fluid Meters and Counting Devices Industry is included for the first time in the census of manufactures for 1972. In 1967, this was part of industry 3821 (Mechanical Measuring Devices). No comparable figures are available for 1967. For detailed data on products of industry 3824, refer to table 6A.

Value of shipments and other receipts of the Fluid Meters and Counting Devices Industry in 1972 totaled \$298 million. This included shipments of fluid meters and counting devices (primary products) valued at \$259 million, shipments of other products (secondary products) valued at \$30 million, and miscellaneous receipts (mainly resales) of \$9 million.

Shipments of fluid meters and counting devices (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary).

Shipments of fluid meters and counting devices (primary products) from establishments classified in industry 3824 in 1972 represented 79 percent (coverage ratio) of these products valued at \$327 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3824, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3825.—INSTRUMENTS TO MEASURE ELECTRICITY (Short Title)**

This industry comprises establishments primarily engaged in manufacturing instruments for measuring the characteristics of electricity and electric signals, such as voltmeters, ammeters, wattmeters, watt-hour meters, demand meters, and equipment for testing the electrical characteristics of electrical, radio, and communication circuits, and of internal combustion engines.

Establishments primarily engaged in the manufacturing of electronic checkout, monitoring, evaluating, and other electronic support equipment for electronic navigational, radar, sonar, and other communication systems are classified in industry 3662 (Radio and TV Communication Equipment). For a detailed list of products of industry 3825, refer to table 6A, product codes 38251 10 to 38253 76.

The code number for this industry was changed in the 1972 revision of the SIC manual from the previous classification

system. Also, the content of the industry has been slightly changed. Instrument and relay transformers are now classified in industry 3612.

Value of shipments and other receipts of the Instruments to Measure Electricity Industry in 1972 totaled \$1,494 million. This included shipments of instruments to measure electricity (primary products) valued at \$1,166 million, shipments of other products (secondary products) valued at \$249 million, and miscellaneous receipts (mainly resales) of \$79 million.

Shipments of instruments to measure electricity (primary products) in 1972 represented 82 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 84 percent. Secondary products shipped by this industry in 1972 consisted mainly of electronic components, n.e.c., (\$53 million).

Shipments of instruments to measure electricity (primary products) from establishments classified in industry 3825 in 1972 represented 88 percent (coverage ratio) of these products valued at \$1,330 million shipped by all industries. In 1967, the coverage ratio was 79 percent. Other industries shipping instruments to measure electricity consisted mainly of industry 3662, Radio and TV Communication Equipment, (\$62 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3825, these establishments accounted for 5 percent of value of shipments.

#### **INDUSTRY 3829.—MEASURING AND CONTROLLING DEVICES, N.E.C.**

This industry comprises establishments primarily engaged in manufacturing measuring and controlling devices, not elsewhere classified, including testing instruments to determine the physical properties of materials, nuclear instruments, aircraft engine instruments, and liquid-in-glass and bimetal thermometers. For a detailed list of products of industry 3829, refer to table 6A, product codes 38291 45 to 38294 39.

The Measuring and Controlling Devices, N.E.C., Industry is included for the first time in the census of manufactures for 1972. In 1967, this industry was part of industry 3821, Mechanical Measuring Devices. No comparable figures are available for 1967. For detailed data on products of industry 3829, Measuring and Controlling Devices, N.E.C., refer to table 6A.

Value of shipments and other receipts of the Measuring and Controlling Devices, N.E.C., Industry in 1972 totaled \$578 million. This included shipments of measuring and controlling devices (primary products) valued at \$451 million, shipments of other products (secondary products) valued at \$78 million, and miscellaneous receipts (mainly resales) of \$49 million.

Shipments of measuring and controlling devices (primary products) in 1972 represented 85 percent (specialization ratio) of the industry's total product shipments (primary and secondary). Secondary products shipped by this industry in 1972 consisted mainly of radio and TV communication equipment (\$14 million).

Shipments of measuring and controlling devices (primary products) from establishments classified in industry 3829 in 1972 represented 77 percent (coverage ratio) of these products valued at \$586 million shipped by all industries.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3829, these establishments accounted for 10 percent of value of shipments.

#### INDUSTRY 3832.—OPTICAL INSTRUMENTS AND LENSES

This industry comprises establishments primarily engaged in manufacturing instruments that measure an optical property; apparatus, except photographic, that projects or magnifies, such as binoculars, prisms, and lenses; optical sighting and fire-control equipment; and related analytical instruments.

Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851 (Ophthalmic Goods); laboratory testing and scientific instruments are classified in industry 3811; and electronic tracking and fire-control systems in industry 3662 (Radio and TV

Communication Equipment). For a detailed list of products of industry 3832, refer to table 6A, product codes 38321 01 to 38323 - -.

The code number for this industry was changed in the 1972 revision of the SIC manual from the previous classification system. Also, the content of the industry has been changed. Industry 3832 as classified in the 1972 edition of the SIC manual consists of industries 1941 (Sighting and Fire Control Equipment) and 3831 (Optical Instruments and Lenses) under the 1967 SIC.

Value of shipments and other receipts of the Optical Instruments and Lenses Industry in 1972 totaled \$531 million. This included shipments of optical instruments and lenses (primary products) valued at \$464 million, shipments of other products (secondary products) valued at \$41 million, and miscellaneous receipts (mainly resales) of \$26 million.

Shipments of optical instruments and lenses (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of engineering and scientific instruments (\$12 million).

Shipments of optical instruments and lenses (primary products) from establishments classified in industry 3832 in 1972 represented 79 percent (coverage ratio) of these products valued at \$585 million shipped by all industries. In 1967, the coverage ratio was 74 percent. Other industries shipping optical instruments and lenses consisted mainly of industry 3662, Radio and TV Communication Equipment, (\$36 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3832, these establishments accounted for 9 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3811.--ENGINEERING AND SCIENTIFIC INSTRUMENTS															
1972 Census.....	743	266	37.4	365.4	22.6	44.0	185.9	680.9	368.5	1,042.0	19.0	(NA)	262.3	86	72
1971 ASM.....	(NA)	(NA)	44.3	401.3	26.9	52.3	204.7	685.2	408.6	1,105.0	25.3	321.7	292.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	50.5	437.3	31.3	61.9	226.9	725.3	436.9	1,180.6	23.2	310.8	277.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	47.2	384.3	29.1	58.2	198.5	661.4	421.1	1,054.8	25.7	253.4	253.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	45.2	347.3	29.1	59.2	183.5	633.1	407.5	1,031.9	26.6	230.2	230.7	(NA)	(NA)
1967 Census.....	677	282	46.1	327.1	31.4	64.0	191.2	617.4	405.5	1,000.8	21.8	214.9	218.6	88	73
1966 ASM.....	(NA)	(NA)	38.3	259.5	26.4	54.7	154.5	471.5	304.8	748.7	15.0	(NA)	177.6	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	31.0	203.0	21.3	43.1	118.0	355.1	227.6	583.6	12.8	(NA)	115.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	30.7	194.0	21.3	42.8	115.8	304.9	215.1	520.1	15.0	116.9	113.6	(NA)	(NA)
1963 Census.....	594	213	33.1	208.2	22.2	44.6	119.8	358.6	200.0	553.9	16.2	106.6	122.1	84	56
1962 ASM.....	(NA)	(NA)	51.0	313.2	35.1	71.1	194.8	503.5	236.8	748.9	28.7	92.9	330.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	68.1	453.6	44.5	88.8	244.4	687.7	386.0	1,097.6	27.2	(NA)	279.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	72.9	469.4	46.9	97.2	261.4	742.8	427.9	1,116.0	29.4	(NA)	292.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	72.8	461.5	49.2	103.0	273.7	729.5	416.8	1,133.7	21.0	(NA)	278.4	(NA)	(NA)
1958 Census.....	559	202	57.2	330.2	38.8	78.0	198.4	481.2	283.1	752.5	16.6	(NA)	245.4	78	67
INDUSTRY 3822.--ENVIRONMENTAL CONTROLS															
1972 Census.....	131	62	30.7	253.6	23.3	44.5	166.4	511.8	223.8	728.1	17.1	(NA)	141.3	86	90
1971 ASM.....	(NA)	(NA)	30.0	241.2	21.6	40.8	150.4	449.6	218.1	659.6	19.4	207.5	139.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	32.6	242.2	23.5	44.5	151.3	441.3	209.9	649.6	17.3	200.0	132.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	33.2	243.8	24.3	48.2	155.3	451.2	210.7	653.5	20.4	180.7	141.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	32.8	229.1	23.8	47.0	145.0	462.6	211.3	672.6	15.8	161.2	130.0	(NA)	(NA)
1967 Census.....	105	54	31.4	210.8	22.6	45.2	131.1	419.7	193.9	618.0	13.2	166.9	124.6	81	91
1966 ASM.....	(NA)	(NA)	32.6	215.8	23.1	46.8	136.6	439.3	198.9	628.5	20.1	(NA)	138.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	32.7	209.9	23.2	47.5	133.7	414.6	189.7	595.5	13.6	(NA)	122.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	32.6	200.6	22.7	45.2	122.1	401.8	160.7	550.6	10.2	155.1	109.2	(NA)	(NA)
1963 Census.....	104	54	31.7	192.3	22.3	45.5	122.2	379.1	158.1	527.4	10.5	155.9	110.8	82	95
1962 ASM.....	(NA)	(NA)	28.7	167.4	18.8	38.1	95.4	335.5	125.0	448.3	9.5	144.5	115.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	28.3	158.8	18.8	38.6	93.7	324.6	114.9	418.1	13.4	(NA)	116.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	28.1	152.0	19.2	38.3	90.2	303.7	108.3	395.5	15.5	(NA)	99.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	28.2	151.2	19.2	39.3	91.8	287.7	108.5	392.1	*13.9	(NA)	83.3	(NA)	(NA)
1958 Census.....	83	44	25.5	129.0	18.0	35.6	81.1	259.0	103.8	359.4	6.0	(NA)	76.1	88	94
INDUSTRY 3823.--PROCESS CONTROL INSTRUMENTS <sup>2</sup>															
1972 Census.....	192	133	38.8	391.1	18.8	37.9	151.1	632.2	286.2	906.9	29.7	(NA)	281.4	83	83
INDUSTRY 3824.--FLUID METERS AND COUNTING DEVICES <sup>2</sup>															
1972 Census.....	61	43	8.8	76.6	5.9	11.7	42.8	181.2	109.7	298.0	7.2	(NA)	66.2	90	79
INDUSTRY 3825.--INSTRUMENTS TO MEASURE ELECTRICITY															
1972 Census.....	632	252	52.9	506.7	33.6	67.0	251.3	1,019.3	504.9	1,493.5	37.7	(NA)	370.0	82	88
1971 ASM.....	(NA)	(NA)	50.4	434.4	31.4	61.1	217.6	825.9	406.2	1,244.9	30.7	390.5	337.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	56.7	450.5	35.1	67.7	227.3	868.9	428.3	1,266.6	48.7	373.2	364.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	60.4	471.1	38.0	74.0	228.9	896.3	454.2	1,330.2	44.7	331.9	351.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	61.3	450.9	39.0	76.2	225.7	852.8	418.0	1,259.0	53.1	330.6	321.9	(NA)	(NA)
1967 Census.....	546	274	61.5	423.9	40.4	78.7	222.3	799.7	397.0	1,184.0	53.7	320.9	283.9	84	79
1966 ASM.....	(NA)	(NA)	56.3	375.9	38.6	77.1	208.7	270.1	333.5	1,020.5	32.8	(NA)	258.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	49.1	318.3	31.4	65.4	173.1	580.1	287.2	863.4	25.8	(NA)	194.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	43.2	279.0	28.6	61.3	153.0	521.4	246.5	769.3	17.1	224.7	179.0	(NA)	(NA)
1963 Census.....	560	209	44.7	273.6	30.1	59.9	149.6	505.3	245.4	749.2	19.2	210.6	181.3	84	78
1962 ASM.....	(NA)	(NA)	*59.5	*340.0	*42.6	*89.0	*205.2	*588.7	*300.8	*879.6	*22.6	*195.3	*202.2	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	*57.7	*335.9	*40.3	*82.5	*194.6	*558.0	*285.5	*830.9	*22.8	(NA)	*196.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	*52.4	*304.0	*37.0	*75.3	*179.3	*518.3	*280.1	*800.7	*25.3	(NA)	*175.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	*50.0	*281.5	*36.3	*74.1	*173.3	*509.9	*271.0	*770.6	*22.0	(NA)	*168.1	(NA)	(NA)
1958 Census.....	492	200	46.9	254.8	31.7	63.3	147.2	419.4	235.2	673.5	19.4	(NA)	153.2	74	81
INDUSTRY 3829.--MEASURING AND CONTROLLING DEVICES, N.E.C. <sup>2</sup>															
1972 Census.....	595	153	21.6	208.5	12.9	25.6	102.4	379.5	199.5	577.7	13.1	(NA)	153.7	85	77

See footnotes at end of table.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
	INDUSTRY 3832.—OPTICAL INSTRUMENTS AND LENSES														
1972 Census.....	491	144	18.6	191.4	10.2	20.3	84.0	379.8	173.0	531.5	12.6	(NA)	155.0	92	79
1971 ASM.....	(NA)	(NA)	17.0	162.2	10.4	20.8	85.5	290.4	131.3	420.6	7.9	163.0	94.0	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.1	292.4	12.8	25.8	102.0	332.3	156.7	492.9	12.1	143.7	92.3	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	27.8	248.4	15.9	32.8	122.1	429.8	212.8	639.4	15.4	(NA)	124.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	28.4	240.0	16.5	34.6	116.5	394.7	200.9	590.3	26.0	(NA)	117.2	(NA)	(NA)
1967 Census.....	316	117	25.4	203.5	15.6	32.8	104.2	347.4	169.0	508.4	17.1	(NA)	103.2	(NA)	(NA)
1966 ASM.....	(NA)	(NA)	20.7	159.5	12.7	26.8	83.7	267.8	145.1	397.9	13.9	(NA)	94.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	19.5	145.9	13.0	27.4	86.1	262.6	136.5	385.0	*8.3	(NA)	85.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	18.8	130.3	12.0	24.3	72.1	216.0	100.3	311.2	9.2	76.4	70.5	(NA)	(NA)
1963 Census.....	293	87	21.1	146.0	14.1	27.8	83.7	228.2	126.9	352.6	9.8	71.4	76.6	(NA)	(NA)
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	63.5	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	244	73	43.6	274.8	25.0	51.0	136.0	420.8	367.7	785.6	7.5	(NA)	(NA)	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3811	Industry 3822	Industry 3823	Industry 3824	Industry 3825	Industry 3829	Industry 3832
1972.....	703	117	175	51	606	579	467
1967.....	642	88	(NA)	(NA)	502	(NA)	301
1963.....	571	89	(NA)	(NA)	536	(NA)	285

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>Comparable data prior to 1972 are not available.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3811.—ENGINEERING AND SCIENTIFIC INSTRUMENTS											
1972 Census.....	9,770	(NA)	60	1,947	4.23	.35	.70	(NA)	18,206	54	15.48
1971 ASM.....	9,059	7,260	61	1,944	3.91	.37	.73	.29	15,467	59	13.10
1970 ASM.....	8,659	6,150	62	1,978	3.67	.37	.74	.26	14,362	60	11.72
1969 ASM.....	8,142	5,370	62	2,000	3.41	.40	.76	.24	14,013	58	11.36
1968 ASM.....	7,684	5,090	64	2,034	3.10	.39	.73	.22	14,007	55	10.69
1967 Census.....	7,093	4,660	68	2,036	2.99	.41	.73	.21	13,386	53	9.64
1966 ASM.....	6,783	(NA)	69	2,076	2.82	.41	.75	(NA)	12,324	55	8.61
1965 ASM.....	6,544	(NA)	69	2,028	2.73	.39	.74	(NA)	11,447	57	8.23
1964 ASM.....	6,317	3,810	69	2,013	2.70	.41	.79	.22	9,930	64	7.12
1963 Census.....	6,292	3,220	67	2,010	2.69	.36	.74	.19	10,839	58	8.04
1962 ASM.....	6,141	1,820	69	2,024	2.74	.32	.73	.12	9,871	62	7.08
1961 ASM.....	6,658	(NA)	65	1,995	2.75	.35	.76	(NA)	10,094	66	7.75
1960 ASM.....	6,439	(NA)	64	2,070	2.69	.37	.77	(NA)	10,191	63	7.64
1959 ASM.....	6,340	(NA)	68	2,093	2.66	.37	.77	(NA)	10,022	63	7.09
1958 Census.....	5,768	(NA)	68	2,013	2.54	.38	.81	(NA)	8,405	69	6.17

See footnote at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual men-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3822.--ENVIRONMENTAL CONTROLS											
1972 Census.....	8,260	(NA)	76	1,909	3.74	.31	.66	(NA)	16,671	50	11.50
1971 ASM.....	8,040	6,920	72	1,889	3.69	.33	.70	.31	14,987	54	11.02
1970 ASM.....	7,429	6,130	72	1,894	3.40	.32	.70	.31	13,537	55	9.92
1969 ASM.....	7,343	5,440	73	1,984	3.22	.32	.70	.28	13,590	54	9.36
1968 ASM.....	6,985	4,910	73	1,975	3.09	.31	.65	.24	14,104	50	9.84
1967 Census.....	6,708	5,320	72	1,995	2.90	.31	.65	.27	13,355	50	9.29
1966 ASM.....	6,611	(NA)	71	2,024	2.92	.32	.66	(NA)	13,461	49	9.39
1965 ASM.....	6,411	(NA)	71	2,042	2.82	.32	.67	(NA)	12,662	51	8.74
1964 ASM.....	6,157	4,760	70	1,994	2.70	.29	.66	.28	12,330	50	8.89
1963 Census.....	6,069	4,920	70	2,039	2.69	.30	.66	.30	11,964	51	8.34
1962 ASM.....	5,828	5,030	65	2,028	2.50	.28	.65	.32	11,678	50	8.81
1961 ASM.....	5,619	(NA)	67	2,053	2.43	.27	.65	(NA)	11,489	49	8.41
1960 ASM.....	5,414	(NA)	68	1,997	2.36	.27	.66	(NA)	10,815	50	7.94
1959 ASM.....	5,366	(NA)	68	2,048	2.34	.28	.66	(NA)	10,208	53	7.32
1958 Census.....	5,055	(NA)	71	1,972	2.28	.29	.65	(NA)	10,150	50	7.27
INDUSTRY 3823.--PROCESS CONTROL INSTRUMENTS											
1972 Census.....	10,080	(NA)	48	2,016	3.99	.32	.75	(NA)	16,294	62	16.68
INDUSTRY 3824.--FLUID METERS AND COUNTING DEVICES											
1972 Census.....	8,704	(NA)	67	1,983	3.66	.37	.63	(NA)	20,591	42	15.49
INDUSTRY 3825.--INSTRUMENTS TO MEASURE ELECTRICITY											
1972 Census.....	9,578	(NA)	64	1,994	3.75	.34	.68	(NA)	19,268	50	15.21
1971 ASM.....	8,619	7,750	62	1,946	3.56	.33	.68	.31	16,387	53	13.52
1970 ASM.....	7,945	6,580	62	1,929	3.41	.34	.69	.29	15,325	52	12.84
1969 ASM.....	7,800	5,500	63	1,947	3.09	.34	.70	.25	14,839	53	12.11
1968 ASM.....	7,356	5,390	64	1,954	2.96	.33	.69	.26	13,912	53	11.19
1967 Census.....	6,890	5,220	69	1,946	2.83	.34	.69	.27	12,997	53	10.16
1966 ASM.....	6,683	(NA)	69	1,996	2.71	.33	.70	(NA)	12,801	52	9.34
1965 ASM.....	6,478	(NA)	64	2,084	2.65	.33	.70	(NA)	11,806	55	8.88
1964 ASM.....	6,459	5,200	66	2,141	2.50	.32	.68	.29	12,069	54	8.51
1963 Census.....	6,120	4,710	67	1,990	2.50	.33	.69	.28	11,301	54	8.44
1962 ASM.....	5,712	3,280	72	2,088	2.31	.34	.73	.22	9,892	58	6.62
1961 ASM.....	5,823	(NA)	70	2,044	2.36	.34	.75	(NA)	9,675	60	6.77
1960 ASM.....	5,797	(NA)	71	2,034	2.38	.35	.73	(NA)	9,884	59	6.88
1959 ASM.....	5,627	(NA)	72	2,045	2.34	.35	.72	(NA)	10,191	55	6.88
1958 Census.....	5,431	(NA)	68	2,008	2.31	.35	.73	(NA)	8,938	61	6.59
INDUSTRY 3829.--MEASURING AND CONTROLLING DEVICES, N.E.C.											
1972 Census.....	9,653	(NA)	60	1,984	4.00	.35	.71	(NA)	17,569	55	14.82
INDUSTRY 3832.--OPTICAL INSTRUMENTS AND LENSES											
1972 Census.....	10,290	(NA)	55	1,990	4.14	.33	.69	(NA)	20,419	50	18.71
1971 ASM.....	9,541	9,588	61	2,000	4.11	.31	.70	.39	17,082	56	13.96
1970 ASM.....	13,858	6,810	62	2,016	3.95	.32	.91	.29	15,749	88	12.88
1969 ASM.....	8,935	(NA)	57	2,063	3.72	.33	.72	(NA)	15,460	58	13.10
1968 ASM.....	8,451	(NA)	58	2,097	3.37	.34	.75	(NA)	13,898	61	11.41
1967 Census.....	8,012	(NA)	61	2,103	3.18	.33	.73	(NA)	13,677	59	10.59
1966 ASM.....	7,705	(NA)	61	2,110	3.12	.36	.77	(NA)	12,937	60	9.99
1965 ASM.....	7,482	(NA)	67	2,108	3.14	.35	.73	(NA)	13,467	56	9.58
1964 ASM.....	6,931	4,080	64	2,025	2.97	.32	.74	.25	11,489	60	8.89
1963 Census.....	6,919	3,380	67	1,972	3.01	.36	.77	.20	10,815	64	8.21
1962 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1958 Census.....	6,303	(NA)	57	2,040	2.67	.47	.82	(NA)	9,651	65	8.25

(NA) Not available.



TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows date for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the date in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(1,000)	(million dollars)			
New industry 3823.--Process Control Instruments.....	192	133	38.8	632.2	906.9	(X)	(X)	(X)	(X)	(X)
Old industry 3821.--Mechanical Measuring Devices.....	192	133	38.8	632.2	906.9	848	329	69.2	1,192.9	1,782.6
New industry 3824.--Fluid Meters and Counting Devices.....	61	43	8.8	181.2	298.0	(X)	(X)	(X)	(X)	(X)
Old industry 3821.--Mechanical Measuring Devices.....	61	43	8.8	181.2	298.0	848	329	69.2	1,192.9	1,782.6
New industry 3829.--Measuring and Controlling Devices,N.E.C.	595	153	21.6	379.5	577.7	(X)	(X)	(X)	(X)	(X)
Old industry 3821.--Mechanical Measuring Devices.....	595	153	21.6	379.5	577.7	848	329	69.2	1,192.9	1,782.6
New industry 3832.--Optical Instruments and Lenses.....	491	144	18.6	379.8	531.5	(X)	(X)	(X)	(X)	(X)
Old industry 3831.--Optical Instruments and Lenses.....	473	138	17.7	365.6	510.2	473	138	17.7	365.6	510.2
Old industry 1941.--Sighting and Fire Control Equipment..	18	6	.9	14.2	21.3	18	6	.9	14.2	21.3

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 2D employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
3811-- ENGINEERING, SCIENTIFIC INSTRS.													
UNITED STATES. . . . .	743	266	37.4	365.4	22.6	44.0	185.9	680.9	368.5	1 042.0	19.0	46.1	617.4
NORTHEAST REGION . . . . . E1	285	106	11.6	114.1	7.4	14.5	61.9	211.4	112.9	324.0	5.0	11.9	156.7
NEW ENGLAND DIVISION . . . . .	104	37	3.6	35.2	2.2	4.1	18.4	68.9	35.7	99.5	2.3	FF	(D)
MAINE. . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MASSACHUSETTS. . . . .	63	16	2.0	21.5	1.3	2.3	12.0	44.9	19.7	60.6	1.1	FF	(D)
RHODE ISLAND . . . . . E5	7	3	.2	1.3	.1	.2	.8	2.5	1.1	3.6	(D)	.2	2.4
CONNECTICUT. . . . .	24	12	1.1	9.6	.6	1.1	4.0	16.5	9.3	25.1	1.1	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . . E1	181	69	8.0	78.6	5.2	10.4	43.5	142.5	77.2	224.5	2.7	FF	(D)
NEW YORK . . . . . E1	68	24	4.0	42.6	2.6	5.2	23.2	68.7	36.1	111.4	1.4	FF	(D)
NEW JERSEY . . . . .	53	20	1.9	18.7	1.3	2.5	10.7	35.0	20.6	53.2	.8	2.6	32.0
PENNSYLVANIA . . . . . E2	60	25	2.1	17.6	1.3	2.7	9.6	38.8	20.5	59.9	.5	EE	(D)
NORTH CENTRAL REGION . . . . .	171	60	12.7	118.3	8.1	15.5	65.0	217.5	124.2	332.9	6.0	16.6	213.4
EAST NORTH CENTRAL DIVISION. . . . . E1	132	47	10.5	97.3	6.8	13.1	55.8	180.0	107.1	279.9	4.3	12.8	170.0
OHIO . . . . .	29	5	.6	4.8	.4	.8	3.1	8.5	4.9	13.2	.4	.8	9.9
INDIANA . . . . .	7	4	.6	5.3	.4	.7	2.1	8.6	4.6	13.4	.3	CC	(D)
ILLINOIS . . . . .	55	20	3.3	29.8	1.8	3.5	13.5	51.6	37.6	102.0	1.6	4.0	58.4
MICHIGAN . . . . .	28	13	3.6	36.1	2.7	5.1	25.8	60.8	34.9	93.2	1.2	5.4	72.3
WISCONSIN. . . . .	13	5	2.4	21.3	1.5	3.0	11.3	34.4	25.1	58.1	.8	EE	(D)
WEST NORTH CENTRAL DIVISION. . . . .	39	13	2.2	21.0	1.3	2.4	9.2	37.5	17.1	53.0	1.7	3.2	38.2
MINNESOTA. . . . .	8	3	.7	7.2	.4	.8	3.2	12.9	5.7	18.2	.4	1.0	14.3
IDWA . . . . .	5	3	1.0	9.5	.5	1.0	3.9	16.6	7.1	23.3	1.1	EE	(D)
KANSAS . . . . . E1	12	1	.2	2.0	.2	.3	.9	3.6	1.3	4.3	.1	BB	(D)
SOUTH REGION . . . . . E1	112	43	4.6	37.5	2.7	5.3	18.7	66.5	39.6	108.8	2.0	7.8	90.9
SOUTH ATLANTIC DIVISION. . . . . E1	59	21	2.4	18.3	1.6	3.0	9.5	31.5	22.2	57.1	1.9	3.9	47.0
MARYLAND . . . . .	21	7	.7	5.7	.4	.9	2.9	12.4	6.6	19.2	.7	1.0	9.9
NORTH CAROLINA . . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA . . . . .	17	6	1.0	5.5	.6	.8	2.6	4.3	4.7	12.5	.1	.6	8.7
EAST SOUTH CENTRAL DIVISION. . . . .	8	4	.6	5.3	.2	.5	1.7	12.2	3.7	15.1	.2	.6	7.0
TENNESSEE. . . . .	3	2	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION. . . . . E1	45	18	1.5	13.7	.9	1.9	7.5	22.9	13.7	36.6	.8	3.3	36.8
TEXAS. . . . . E1	39	16	1.5	13.3	.9	1.7	7.3	21.8	13.2	35.0	.8	2.8	31.7
WEST REGION. . . . .	175	57	8.6	95.5	4.3	8.6	40.4	185.4	91.9	276.5	5.8	9.9	156.4
MOUNTAIN DIVISION. . . . .	25	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
COLORADO . . . . . E4	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARIZONA. . . . .	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PACIFIC DIVISION . . . . .	150	51	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
WASHINGTON . . . . .	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DREGON . . . . .	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	133	42	4.8	51.9	2.7	5.5	23.9	106.2	60.3	165.6	(D)	FF	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3822-- ENVIRONMENTAL CONTROLS</b>													
UNITED STATES. . . . .	131	62	30.7	253.6	23.3	44.5	166.4	511.8	223.8	728.1	17.1	31.4	419.7
NORTHEAST REGION. . . . .	41	19	5.1	40.6	3.8	7.1	25.0	72.3	32.2	103.4	1.4	3.9	42.1
NEW ENGLAND DIVISION. . . . .	12	8	1.7	13.9	1.2	2.0	6.5	26.3	11.0	37.5	.6	.8	8.3
MASSACHUSETTS. . . . .	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
RHODE ISLAND. . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION. . . . .	29	11	3.4	26.7	2.7	5.1	18.5	46.0	21.2	65.9	.8	3.1	33.8
NEW YORK. . . . .	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PENNSYLVANIA. . . . .	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION. . . . .	42	26	18.6	156.2	13.8	26.2	101.0	329.8	134.9	460.6	12.2	22.3	317.9
EAST NORTH CENTRAL DIVISION. . . . .	33	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.7	219.3
OHIO. . . . .	15	12	5.3	41.2	4.4	8.5	29.6	71.9	28.8	98.2	(D)	3.5	39.1
INDIANA. . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS. . . . .	9	5	6.2	51.5	4.1	7.6	29.4	112.1	44.6	156.7	4.7	6.9	110.2
WEST NORTH CENTRAL DIVISION. . . . .	9	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MINNESOTA. . . . .	4	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
MISSOURI. . . . .	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION. . . . .	18	10	2.2	14.7	1.8	3.6	10.6	41.0	20.5	61.1	.8	1.1	9.9
SOUTH ATLANTIC DIVISION. . . . .	6	4	.8	4.3	.6	1.2	3.2	9.5	4.4	13.4	.1	.88	(D)
MARYLAND. . . . .	2	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH CAROLINA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	6	4	1.3	8.9	1.1	2.3	6.7	28.7	14.3	43.4	.6	CC	(D)
KENTUCKY. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ALABAMA. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	E1 6	2	.2	1.5	.1	.2	.7	2.8	1.7	4.4	.1	(NA)	(NA)
TEXAS. . . . .	E1 6	2	.2	1.5	.1	.2	.7	2.8	1.7	4.4	.1	(NA)	(NA)
WEST REGION. . . . .	30	7	4.8	42.0	3.9	7.6	29.8	68.7	36.3	102.9	2.7	4.1	49.8
PACIFIC DIVISION. . . . .	24	7	4.7	41.8	3.8	7.5	29.7	68.4	36.0	102.3	(D)	FF	(D)
CALIFORNIA. . . . .	23	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
<b>3823-- PROCESS CONTROL INSTRUMENTS</b>													
UNITED STATES. . . . .	192	133	38.8	391.1	18.8	37.9	151.1	632.2	286.2	906.9	29.7	(NA)	(NA)
NORTHEAST REGION. . . . .	78	53	20.8	206.7	9.3	18.9	77.2	348.1	152.1	491.0	16.6	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	26	17	8.2	74.3	3.4	7.1	26.7	106.7	49.9	152.5	4.9	(NA)	(NA)
MASSACHUSETTS. . . . .	19	10	6.2	54.8	2.4	5.0	17.8	76.3	38.1	109.5	(D)	(NA)	(NA)
CONNECTICUT. . . . .	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	50	36	12.6	132.4	5.9	11.8	50.5	241.4	102.2	338.5	11.7	(NA)	(NA)
NEW YORK. . . . .	18	12	2.7	25.9	1.3	2.5	10.2	57.8	18.8	71.9	(D)	(NA)	(NA)
NEW JERSEY. . . . .	16	9	.8	7.6	.5	.9	3.1	10.4	4.9	15.3	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	16	15	8.1	98.9	4.1	8.5	37.1	173.2	78.5	251.3	5.1	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	47	36	10.5	93.7	6.6	13.5	51.7	167.6	73.5	244.7	6.8	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	42	33	9.3	81.6	5.8	12.0	44.7	141.8	64.3	209.8	6.4	(NA)	(NA)
OHIO. . . . .	14	11	3.6	34.1	1.7	3.3	13.8	49.2	25.7	80.2	2.2	(NA)	(NA)
INDIANA. . . . .	3	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . .	16	11	4.5	35.4	3.3	6.8	24.4	64.3	27.3	91.1	3.7	(NA)	(NA)
MICHIGAN. . . . .	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN. . . . .	3	2	.2	1.5	.2	.3	1.0	4.3	1.3	4.8	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . .	5	3	1.2	12.1	.8	1.5	7.0	25.8	9.2	34.9	.4	(NA)	(NA)
IOWA. . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	24	15	1.3	9.8	.9	1.7	4.9	30.4	13.3	42.8	.8	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	6	4	.5	3.9	.4	.7	1.9	11.8	4.6	16.0	.3	(NA)	(NA)
VIRGINIA. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST VIRGINIA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . .	-	-	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY. . . . .	1	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . .	15	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . .	12	7	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . .	43	29	6.2	80.9	2.3	3.9	17.4	86.1	47.1	128.4	5.5	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	7	5	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARIZONA. . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEVADA. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	36	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	35	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3824-- FLUID METERS AND COUNTING DEVICES</b>													
UNITED STATES . . . . .	61	43	8.8	76.6	5.9	11.7	42.8	181.2	109.7	298.0	7.2	(NA)	(NA)
NORTHEAST REGION . . . . .	24	17	4.6	41.3	3.1	6.1	23.3	85.3	60.9	156.8	3.5	(NA)	(NA)
NEW ENGLAND DIVISION . . . . .	8	6	1.6	17.4	.9	1.8	7.4	21.7	19.2	43.0	1.5	(NA)	(NA)
MASSACHUSETTS . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	16	11	2.9	23.9	2.2	4.2	15.8	63.6	41.7	113.7	2.1	(NA)	(NA)
NEW YORK . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY . . . . .	8	5	.4	3.5	.3	.5	1.9	6.5	3.7	10.2	.1	(NA)	(NA)
PENNSYLVANIA . . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	15	12	1.8	16.6	1.2	2.3	9.6	50.7	22.0	71.1	1.7	(NA)	(NA)
EAST NORTH CENTRAL DIVISION . . . . .	12	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WISCONSIN . . . . .	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	10	6	1.6	13.0	1.0	2.4	7.3	32.6	18.1	49.0	1.2	(NA)	(NA)
SOUTH ATLANTIC DIVISION . . . . .	6	3	1.0	7.6	.7	1.6	4.5	17.2	6.6	23.7	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	12	8	.8	5.6	.6	1.0	2.7	12.5	8.6	21.2	.7	(NA)	(NA)
MOUNTAIN DIVISION . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	11	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	11	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
<b>3825-- INSTRS. TO MEASURE ELECTRICITY</b>													
UNITED STATES . . . . .	632	252	52.9	506.7	33.6	67.0	251.3	1 019.3	504.9	1 493.5	37.7	61.5	799.7
NORTHEAST REGION . . . . .	215	91	15.5	145.2	9.6	18.6	67.9	273.3	150.1	421.6	9.0	17.8	214.1
NEW ENGLAND DIVISION . . . . .	69	31	8.0	74.4	5.1	9.9	34.4	147.5	58.2	204.5	4.4	FF	(D)
NEW HAMPSHIRE . . . . .	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS . . . . .	29	10	3.4	38.9	1.6	3.3	13.7	67.4	25.6	93.9	1.5	FF	(D)
CONNECTICUT . . . . .	23	10	.8	6.9	.5	.8	3.5	11.4	6.7	17.9	.4	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	146	60	7.5	70.8	4.5	8.7	33.5	125.8	91.9	217.1	4.6	FF	(D)
NEW YORK . . . . .	59	25	3.3	33.5	1.8	3.7	14.5	62.5	57.2	118.5	1.5	3.6	38.8
NEW JERSEY . . . . .	49	18	2.3	22.8	1.4	2.5	9.9	32.4	18.5	53.7	1.6	4.3	41.3
PENNSYLVANIA . . . . .	38	17	1.9	14.5	1.3	2.5	9.1	30.9	16.2	44.9	1.5	EE	(D)
NORTH CENTRAL REGION . . . . .	148	59	11.5	100.8	7.1	14.1	48.7	215.5	97.4	304.1	6.1	13.4	167.7
EAST NORTH CENTRAL DIVISION . . . . .	118	52	10.3	88.6	6.6	13.2	45.5	193.4	88.4	273.7	5.5	FF	(D)
OHIO . . . . .	37	19	2.7	22.0	1.6	3.1	10.8	45.4	19.9	64.0	1.1	3.9	46.4
INDIANA . . . . .	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS . . . . .	38	16	4.7	42.8	3.0	5.8	21.4	101.1	43.9	142.3	2.6	5.7	71.6
MICHIGAN . . . . .	21	8	1.1	10.2	.7	1.5	4.6	18.8	10.4	27.0	.5	1.2	18.5
WISCONSIN . . . . .	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST NORTH CENTRAL DIVISION . . . . .	30	7	1.2	12.2	.5	.9	3.2	22.1	9.0	30.4	.6	CC	(D)
MISSOURI . . . . .	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH DAKOTA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	92	25	4.5	36.2	3.3	6.6	20.4	75.5	30.6	106.3	3.3	6.2	74.1
SOUTH ATLANTIC DIVISION . . . . .	38	7	2.9	23.4	2.2	4.4	13.4	49.6	15.3	66.1	1.6	4.0	44.4
MARYLAND . . . . .	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA . . . . .	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA . . . . .	9	2	.1	1.0	.1	.2	.5	1.3	.7	1.9	.1	CC	(D)
EAST SOUTH CENTRAL DIVISION . . . . .	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSISSIPPI . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	43	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OKLAHOMA . . . . .	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	32	10	.9	8.5	.7	1.3	4.4	17.7	11.1	28.3	.5	EE	(D)
WEST REGION . . . . .	177	77	21.4	224.6	13.4	27.7	114.5	454.9	226.5	661.5	19.3	24.1	343.8
MOUNTAIN DIVISION . . . . .	16	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	161	73	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WASHINGTON . . . . .	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON . . . . .	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	144	67	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3829-- MEAS'G, CONTRL'G DEVICES, NEC													
UNITED STATES. . . . .	595	153	21.6	208.5	12.9	25.6	102.4	1379.5	199.5	577.7	13.1	(NA)	(NA)
NORTHEAST REGION. . . . . E1	193	68	8.1	78.0	5.2	10.5	40.6	143.2	72.6	216.1	4.0	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	62	23	3.8	36.6	2.3	4.6	17.1	63.2	33.0	96.7	1.6	(NA)	(NA)
VERMONT. . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	28	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . . E2	27	12	1.4	11.9	.8	1.6	5.2	19.2	14.3	33.0	.4	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . E1	131	45	4.3	40.5	2.8	5.9	23.4	78.2	39.6	117.5	1.8	(NA)	(NA)
NEW YDRK. . . . . E1	70	25	1.6	14.9	1.0	1.8	6.6	30.6	13.9	44.3	1.3	(NA)	(NA)
NEW JERSEY. . . . . E2	23	11	.6	4.9	.4	.8	2.4	10.7	6.7	17.3	.4	(NA)	(NA)
PENNSYLVANIA. . . . .	38	9	2.1	21.6	1.5	3.3	14.5	38.7	19.0	57.8	.7	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	142	34	7.4	78.4	3.6	7.0	29.9	141.5	88.0	226.6	5.3	(NA)	(NA)
EAST NRTH CENTRAL DIVISION. . .	121	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OHIO. . . . .	38	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDIANA. . . . .	11	5	.1	2.0	.2	.4	1.5	7.0	3.4	10.3	.2	(NA)	(NA)
ILLINOIS. . . . .	25	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MICHIGAN. . . . . E1	35	7	.8	7.4	.4	.8	3.4	14.1	5.9	20.0	.2	(NA)	(NA)
WEST NRTH CENTRAL DIVISION. . .	21	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MINNESOTA. . . . .	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . . E2	103	23	2.5	18.8	1.7	3.1	9.3	31.8	17.3	52.3	1.8	(NA)	(NA)
SDUTH ATLANTIC DIVISION. . . . .	34	9	1.2	9.1	.8	1.4	4.0	18.1	8.9	26.6	.6	(NA)	(NA)
NORTH CAROLINA. . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SDETH CENTRAL DIVISION. . E1	15	5	.4	2.8	.3	.6	1.5	5.4	2.8	8.3	.1	(NA)	(NA)
TENNESSEE. . . . .	9	3	.4	2.3	.3	.5	1.1	4.4	2.5	6.8	.1	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E4	54	9	.8	6.9	.6	1.1	3.8	8.2	5.6	17.4	1.0	(NA)	(NA)
OKLAHOMA. . . . . E3	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E4	39	7	.6	5.0	.4	.8	2.6	5.7	4.5	13.8	1.0	(NA)	(NA)
WEST REGION. . . . . E1	157	28	3.5	33.2	2.6	5.0	22.6	63.0	21.6	82.9	2.1	(NA)	(NA)
MDUNTAIN DIVISION. . . . .	22	7	1.7	18.1	1.4	2.8	14.7	29.8	8.7	37.6	1.2	(NA)	(NA)
COLORADO. . . . .	9	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW MEXICO. . . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E2	135	21	1.8	15.1	1.2	2.2	7.9	33.2	12.9	45.2	.9	(NA)	(NA)
CALIFORNIA. . . . . E1	122	19	1.6	13.9	1.1	2.1	7.4	29.1	11.7	40.0	.8	(NA)	(NA)
3832-- OPTICAL INSTRUMENTS AND LENSES													
UNITED STATES. . . . .	491	144	18.6	191.4	10.2	20.3	84.0	379.8	173.0	531.5	12.6	(NA)	(NA)
NORTHEAST REGION. . . . .	218	62	8.5	93.9	4.6	9.5	40.1	208.9	83.6	268.4	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	63	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	50	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . .	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . .	155	37	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . .	89	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW JERSEY. . . . . E1	35	6	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . . E1	31	7	.9	8.7	.6	1.1	4.6	19.4	7.2	24.7	.4	(NA)	(NA)
NORTH CENTRAL REGION. . . . . E1	88	25	2.2	18.7	1.2	2.3	8.9	36.1	19.2	55.3	(D)	(NA)	(NA)
EAST NRTH CENTRAL DIVISION. . E1	68	18	1.8	15.5	1.0	1.8	7.2	28.7	16.5	45.3	1.3	(NA)	(NA)
OHIO. . . . . E1	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ILLINOIS. . . . . E1	29	8	.7	6.3	.4	.7	2.9	13.0	7.8	20.9	.3	(NA)	(NA)
MICHIGAN. . . . .	15	4	.4	3.9	.3	.5	1.9	5.3	3.6	9.2	.1	(NA)	(NA)
WEST NRTH CENTRAL DIVISION. . E2	20	7	.4	3.2	.2	.6	1.7	7.4	2.6	10.0	(D)	(NA)	(NA)
MISSOURI. . . . . E2	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEBRASKA. . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . . E2	59	15	2.2	20.2	1.3	2.4	9.1	33.9	14.9	47.9	2.4	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . E2	39	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
DELAWARE. . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MARYLAND. . . . . E1	8	3	.2	1.8	.1	.1	.5	3.0	1.7	4.8	(Z)	(NA)	(NA)
VIRGINIA. . . . .	10	3	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA. . . . . E9	11	2	.8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E2	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E2	12	3	.6	4.2	.5	1.0	3.0	9.5	2.9	12.7	(D)	(NA)	(NA)
WEST REGION. . . . .	126	42	5.8	58.8	3.0	6.1	25.8	100.9	55.2	160.0	4.2	(NA)	(NA)
PACIFIC DIVISION. . . . .	113	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
OREGON. . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	102	38	5.3	54.6	2.7	5.5	23.6	92.4	51.7	148.9	(D)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over



TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Engineering and scientific instruments (SIC 3811)	Environmental controls (SIC 3822)	Process control instruments (SIC 3823)	Fluid meters and counting devices (SIC 3824)	Instruments to measure electricity (SIC 3825)	Measuring and controlling devices, n.e.c. (SIC 3829)	Optical instruments and lenses (SIC 3832)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	86	86	83	90	82	85	92
COVERAGE RATIO <sup>2</sup> . . . . . DO .	72	90	83	79	88	77	79
ESTABLISHMENTS, TOTAL . . . . . NUMBER .	743	131	192	81	632	595	491
WITH 1 TO 19 EMPLOYEES . . . . . DO .	477	69	59	18	380	442	347
WITH 20 TO 99 EMPLOYEES . . . . . DO .	194	25	76	22	146	102	100
WITH 100 EMPLOYEES OR MORE . . . . . DO .	72	37	57	21	106	51	44
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000	37.4	30.7	38.8	8.8	52.9	21.6	18.6
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . MILLION DOLLARS .	365.4	253.6	391.1	76.6	506.7	208.5	191.4
PRODUCTION WORKERS:							
AVERAGE FOR YEAR . . . . . 1,000	22.6	23.3	18.8	5.9	33.6	12.9	10.2
MARCH . . . . . DO .	22.5	22.4	18.4	5.8	31.5	12.6	10.0
MAY . . . . . DO .	22.5	23.3	18.9	5.9	32.4	12.7	10.0
AUGUST . . . . . DO .	22.1	23.8	18.8	5.9	34.5	13.0	10.2
NOVEMBER . . . . . DO .	23.3	23.7	19.0	6.0	36.2	13.4	10.6
MAN-HOURS . . . . . MILLIONS	44.0	44.5	37.9	11.7	67.0	25.6	20.3
JANUARY-MARCH . . . . . DO .	10.9	11.0	9.3	2.9	15.8	6.3	5.0
APRIL-JUNE . . . . . DO .	11.2	11.4	9.7	3.0	16.2	6.4	5.0
JULY-SEPTEMBER . . . . . DO .	10.5	10.8	9.2	2.8	16.5	6.2	4.9
OCTOBER-DECEMBER . . . . . DO .	11.4	11.3	9.7	3.0	18.3	6.7	5.4
WAGES . . . . . MILLION DOLLARS	185.9	166.4	151.1	42.8	251.3	102.4	84.0
COST OF MATERIALS, ETC., TOTAL . . . . . DO .	368.5	223.8	286.2	109.7	504.9	199.5	173.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . DO .	308.3	204.2	237.8	104.2	458.0	176.0	149.3
COST OF REALES . . . . . DO .	40.2	11.1	33.7	2.4	30.6	12.4	14.5
FUELS CONSUMED . . . . . DO .	2.2	1.2	2.0	.6	2.0	1.1	1.1
PURCHASED ELECTRIC ENERGY . . . . . DO .	5.9	3.4	4.9	1.4	6.5	3.2	3.1
CONTRACT WORK . . . . . DO .	11.8	3.9	7.7	1.0	7.8	6.9	5.1
VALUE OF SHIPMENTS, INCLUDING REALES . . . . . DO .	1 042.0	728.1	906.9	298.0	1 493.5	577.7	531.5
VALUE OF REALES . . . . . DO .	67.2	21.6	44.5	3.8	43.0	17.8	20.6
VALUE ADDED BY MANUFACTURE . . . . . DO .	680.9	511.8	632.2	181.2	1 019.3	379.5	379.8
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL . . . . . DO .	244.6	130.5	261.8	71.4	329.5	146.8	134.1
FINISHED PRODUCTS . . . . . DO .	60.1	34.9	48.6	27.9	81.4	30.9	48.1
WORK IN PROCESS . . . . . DO .	122.3	73.1	111.2	32.1	147.6	75.9	54.9
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO .	62.1	22.5	102.0	11.3	100.6	40.0	31.2
END OF YEAR, TOTAL . . . . . DO .	262.3	141.3	281.4	66.2	370.0	153.7	155.0
FINISHED PRODUCTS . . . . . DO .	61.5	36.0	52.9	20.9	84.5	35.5	50.0
WORK IN PROCESS . . . . . DO .	128.1	79.5	118.4	32.1	175.2	72.5	74.1
MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO .	72.7	25.8	110.0	13.3	110.4	45.6	30.8
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . DO .	21.8	17.3	31.5	7.9	39.6	13.6	14.1
NEW PLANT AND EQUIPMENT, TOTAL . . . . . DO .	19.0	17.1	29.7	7.2	37.7	13.1	12.6
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO .	4.5	3.1	10.8	1.7	9.1	2.9	2.6
NEW MACHINERY AND EQUIPMENT . . . . . DO .	14.5	14.0	18.9	5.5	28.7	10.3	10.0
USED PLANT AND EQUIPMENT . . . . . DO .	2.8	.2	1.8	.7	1.8	.5	1.5

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3811-- ENGINEERING, SCIENTIFIC INSTRS.											
ESTABLISHMENTS, TOTAL . . . . .	743	37.4	365.4	22.6	44.0	185.9	680.9	368.5	1 042.0	19.0	262.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	234	.4	3.5	.3	.5	1.7	6.8	4.6	13.0	.4	2.9
5 TO 9 EMPLOYEES . . . . . E6	110	.7	6.4	.4	.8	3.2	12.5	6.8	19.2	.5	4.7
10 TO 19 EMPLOYEES . . . . . E2	133	1.8	16.8	1.1	2.1	8.3	34.1	19.2	52.8	1.0	9.5
20 TO 49 EMPLOYEES . . . . .	136	4.4	40.0	2.8	5.4	21.0	82.2	41.5	119.7	3.4	29.5
50 TO 99 EMPLOYEES . . . . . E1	58	4.1	39.7	2.5	5.1	19.3	70.9	45.0	115.4	1.8	35.3
100 TO 249 EMPLOYEES . . . . .	43	7.1	66.2	4.5	8.9	33.2	130.8	83.6	213.0	4.1	54.8
250 TO 499 EMPLOYEES . . . . .	17	5.8	53.1	3.5	6.8	26.1	89.3	55.5	146.3	2.7	37.4
500 TO 999 EMPLOYEES . . . . .	7	4.5	48.5	2.7	4.8	27.1	87.4	36.1	117.9	2.1	29.4
1,000 TO 2,499 EMPLOYEES . . . . .	5	8.6	91.2	4.9	9.6	46.0	166.8	76.2	244.9	3.1	58.8
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	213	.6	5.4	.4	.7	2.6	12.5	7.0	19.5	.3	4.7
3822-- ENVIRONMENTAL CONTROLS											
ESTABLISHMENTS, TOTAL . . . . .	131	30.7	253.6	23.3	44.5	166.4	511.8	223.8	728.1	17.1	141.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E7	34	.1	.5	.1	.1	.3	1.6	.7	2.2	.1	.5
5 TO 9 EMPLOYEES . . . . . E6	20	.1	1.1	.1	.2	.6	2.8	1.7	4.5	.1	.9
10 TO 19 EMPLOYEES . . . . . E2	15	.2	1.7	.2	.3	1.0	3.4	1.9	5.0	.1	.9
20 TO 49 EMPLOYEES . . . . .	13	.4	3.4	.3	.5	1.7	6.5	3.3	9.6	.5	1.7
50 TO 99 EMPLOYEES . . . . .	12	.9	5.0	.6	1.1	2.6	11.5	8.0	19.5	.6	3.3
100 TO 249 EMPLOYEES . . . . .	12	1.9	12.8	1.5	2.9	8.2	40.2	22.9	62.0	.3	7.0
250 TO 499 EMPLOYEES . . . . .	7	2.4	16.2	1.9	3.5	11.0	41.3	19.0	60.0	.6	14.9
500 TO 999 EMPLOYEES . . . . .	9	7.0	58.3	5.3	10.2	37.6	102.7	51.2	152.5	5.5	32.5
1,000 TO 2,499 EMPLOYEES . . . . .	8	17.6	154.5	13.3	25.7	103.4	301.8	115.2	412.8	9.2	79.6
2,500 EMPLOYEES OR MORE . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	42	.2	1.1	.1	.2	.7	3.4	1.6	4.9	.1	1.1

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972--Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments	All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	End-of-year inventories
		Number	Payroll	Number	Man-hours	Wages					
	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)
3823-- PROCESS CONTROL INSTRUMENTS											
ESTABLISHMENTS, TOTAL. . . . .	192	38.8	391.1	18.8	37.9	151.1	632.2	286.2	906.9	29.7	281.4
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	10	.1	1.5	.1	.1	.8	2.7	1.7	4.3	.1	.8
5 TO 9 EMPLOYEES . . . . .	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES . . . . .	32	.4	3.8	.3	.5	1.9	12.5	5.8	18.4	.5	3.0
20 TO 49 EMPLOYEES . . . . .	52	1.6	14.9	1.0	1.9	7.0	36.7	15.3	51.3	.9	9.3
50 TO 99 EMPLOYEES . . . . .	24	1.6	13.4	1.1	2.2	7.4	27.2	11.9	38.6	2.2	8.6
100 TO 249 EMPLOYEES . . . . .	31	4.7	44.2	3.0	5.9	23.1	102.4	42.7	142.1	3.4	37.0
250 TO 499 EMPLOYEES . . . . .	11	3.6	34.2	1.9	3.6	15.4	70.9	30.5	103.3	7.1	24.9
500 TO 999 EMPLOYEES . . . . .	7	4.7	44.0	2.6	5.2	21.2	66.6	38.0	106.5	1.9	39.1
1,000 TO 2,499 EMPLOYEES . . . . .	3	5.8	60.7	2.6	5.6	22.1	96.4	44.6	139.4	4.0	54.6
2,500 EMPLOYEES OR MORE. . . . .	4	13.0	125.6	5.9	12.1	47.6	203.9	80.7	278.8	7.4	93.8
3824-- FLUID METERS AND COUNTING DEVICES											
ESTABLISHMENTS, TOTAL. . . . .	61	8.8	76.6	5.9	11.7	42.8	181.2	109.7	298.0	7.2	66.2
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . .	2	(Z)	.3	(Z)	.1	.2	1.3	.4	1.6	(Z)	.2
5 TO 9 EMPLOYEES . . . . .	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES . . . . .	11	.1	1.5	.1	.2	.8	2.5	1.1	3.6	.1	.6
20 TO 49 EMPLOYEES . . . . .	14	.4	3.6	.3	.6	1.9	8.0	4.3	11.9	.3	2.4
50 TO 99 EMPLOYEES . . . . .	8	.4	3.6	.3	.6	2.1	11.2	6.4	18.1	.1	2.5
100 TO 249 EMPLOYEES . . . . .	6	1.0	8.5	.7	1.3	4.6	22.4	14.5	35.6	.3	10.0
250 TO 499 EMPLOYEES . . . . .	11	6.7	59.0	4.5	8.9	33.1	135.7	83.0	227.1	6.3	50.7
500 TO 999 EMPLOYEES . . . . .	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3825-- INSTRS. TO MEASURE ELECTRICITY											
ESTABLISHMENTS, TOTAL. . . . .	632	52.9	506.7	33.6	67.0	251.3	1 019.3	504.9	1 493.5	37.7	370.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	201	.4	2.9	.3	.4	1.4	6.5	3.4	10.5	.7	2.7
5 TO 9 EMPLOYEES . . . . . E6	93	.6	5.4	.4	.7	2.7	9.3	5.8	16.4	.9	4.4
10 TO 19 EMPLOYEES . . . . . E4	86	1.2	10.9	.7	1.4	5.1	20.9	11.2	31.2	1.0	7.4
20 TO 49 EMPLOYEES . . . . .	99	3.2	28.9	2.0	3.8	13.5	57.2	29.0	84.2	2.3	18.7
50 TO 99 EMPLOYEES . . . . . E1	47	3.2	29.5	2.1	4.2	14.4	53.3	31.0	81.4	1.9	21.5
100 TO 249 EMPLOYEES . . . . .	69	10.9	93.9	6.6	13.5	45.4	180.4	97.2	271.9	8.2	78.3
250 TO 499 EMPLOYEES . . . . .	14	5.1	46.5	3.5	6.9	20.2	97.6	53.6	142.4	2.2	40.8
500 TO 999 EMPLOYEES . . . . .	13	8.6	87.0	5.6	11.4	43.2	172.8	83.0	255.9	8.3	67.1
1,000 TO 2,499 EMPLOYEES . . . . .	9	19.5	201.7	12.3	24.8	105.2	421.2	190.9	599.5	12.1	129.2
2,500 EMPLOYEES OR MORE. . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	203	.7	5.6	.5	.8	2.7	11.9	6.0	17.9	.9	5.2
3829-- MEAS'G, CONTROL'G DEVICES, NEC											
ESTABLISHMENTS, TOTAL. . . . .	595	21.6	208.5	12.9	25.6	102.4	379.5	199.5	577.7	13.1	153.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	275	.5	3.9	.3	.5	1.9	8.0	4.6	14.1	.8	4.0
5 TO 9 EMPLOYEES . . . . . E7	103	.7	6.0	.4	.8	2.9	9.4	6.7	20.1	.6	5.1
10 TO 19 EMPLOYEES . . . . . E2	64	.9	7.9	.5	1.1	4.2	14.7	7.5	21.8	.5	5.1
20 TO 49 EMPLOYEES . . . . . E2	82	2.6	22.8	1.7	3.0	11.3	46.1	22.8	68.3	1.6	13.6
50 TO 99 EMPLOYEES . . . . .	20	1.5	13.3	.9	1.8	6.5	26.4	13.9	40.2	.6	9.9
100 TO 249 EMPLOYEES . . . . .	35	5.1	46.4	3.0	5.8	20.9	88.2	43.4	129.3	3.2	35.9
250 TO 499 EMPLOYEES . . . . .	6	1.8	16.7	1.0	2.1	7.2	28.5	17.5	44.7	1.0	12.4
500 TO 999 EMPLOYEES . . . . .	6	4.1	40.2	2.3	4.6	17.1	70.4	35.7	107.3	2.4	32.0
1,000 TO 2,499 EMPLOYEES . . . . .	4	7.6	100.2	3.2	6.9	35.0	100.7	62.4	156.0	4.8	46.2
2,500 EMPLOYEES OR MORE. . . . .	-	-	-	-	-	-	-	-	-	-	-
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	277	.8	6.8	.5	.9	3.3	15.8	7.6	23.4	.8	6.9
3832-- OPTICAL INSTRUMENTS AND LENSES											
ESTABLISHMENTS, TOTAL. . . . .	491	18.6	191.4	10.2	20.3	84.0	379.8	173.0	531.5	12.6	155.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	204	.3	3.1	.3	.4	1.7	7.4	3.2	10.7	.3	2.1
5 TO 9 EMPLOYEES . . . . . E7	67	.5	4.2	.3	.6	2.3	8.4	3.5	11.9	.3	2.3
10 TO 19 EMPLOYEES . . . . . E2	76	1.0	9.0	.6	1.2	4.8	17.4	9.0	26.1	.8	5.4
20 TO 49 EMPLOYEES . . . . . E1	68	2.2	20.5	1.4	2.6	10.5	38.7	19.6	58.1	1.6	11.6
50 TO 99 EMPLOYEES . . . . .	32	2.2	22.0	1.2	2.3	9.8	38.0	22.2	58.3	1.6	9.6
100 TO 249 EMPLOYEES . . . . .	30	4.7	45.8	2.6	5.4	21.3	80.0	37.0	113.8	1.7	27.5
250 TO 499 EMPLOYEES . . . . .	9	3.4	35.0	1.7	3.4	12.8	65.7	26.0	88.7	4.1	23.9
500 TO 999 EMPLOYEES . . . . .	3	4.3	52.0	2.0	4.4	20.8	124.0	52.4	164.0	2.1	72.6
1,000 TO 2,499 EMPLOYEES . . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> . . . . .	206	.6	5.1	.4	.7	2.8	11.7	5.2	16.9	.4	3.4

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Reports forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.



TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3811	ENGINEERING AND SCIENTIFIC INSTRUMENTS										
	ENTIRE INDUSTRY . . . . .	743	37.4	365.4	22.6	44.0	185.9	680.9	368.5	1 042.0	19.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	672	26.5	266.2	16.1	31.4	134.4	496.0	267.2	759.9	12.8
38111	AERONAUTICAL, NAUTICAL, NAVIGATIONAL INSTRUMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	88	17.2	182.0	10.1	19.3	89.3	300.2	151.8	455.1	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	65	10.6	113.3	6.2	12.0	54.4	198.3	90.0	278.8	4.2
38112	LABORATORY AND SCIENTIFIC INSTRUMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	232	12.1	115.6	7.1	14.2	58.2	256.8	132.8	381.3	7.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	196	7.8	76.9	4.7	9.3	39.4	156.7	86.8	239.3	3.9
38113	SURVEYING, DRAFTING INSTRUMENTS AND LAB FURNITURE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	53	5.4	44.6	3.9	7.7	27.8	78.0	57.5	133.1	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	40	3.2	26.0	2.3	4.5	16.3	47.3	35.8	82.5	1.4
3822	ENVIRONMENTAL CONTROLS										
	ENTIRE INDUSTRY . . . . .	131	30.7	253.6	23.3	44.5	166.4	511.8	223.8	728.1	17.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	121	24.1	198.8	18.7	35.6	133.6	381.8	182.7	557.0	13.8
3823	PROCESS CONTROL INSTRUMENTS										
	ENTIRE INDUSTRY . . . . .	192	38.8	391.1	18.8	37.9	151.1	632.2	286.2	906.9	29.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	155	30.6	321.2	13.5	27.2	111.3	503.1	225.7	722.6	21.0
3824	FLUID METERS AND COUNTING DEVICES										
	ENTIRE INDUSTRY . . . . .	61	8.8	76.6	5.9	11.7	42.8	181.2	109.7	298.0	7.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	51	7.4	66.4	4.9	9.8	36.3	158.3	95.4	261.6	6.3
38242	INTEGRATING METERS, NONELECTRICAL TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	25	5.8	49.5	3.9	7.5	29.6	130.3	87.5	227.3	4.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	21	5.0	43.1	3.3	6.4	25.3	115.4	78.3	203.8	3.9
38243	COUNTING DEVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	18	2.2	21.1	1.4	3.1	10.1	38.2	12.8	48.9	2.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38244	MOTOR VEHICLE INSTRUMENTS, EXCEPT ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	14	.8	5.4	.6	1.1	2.9	12.1	8.9	20.7	.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	9	.3	2.1	.2	.4	1.2	4.5	3.7	8.0	(Z)
3825	INSTRUMENTS TO MEASURE ELECTRICITY										
	ENTIRE INDUSTRY . . . . .	632	52.9	506.7	33.6	67.0	251.3	1 019.3	504.9	1 493.5	37.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	580	32.9	301.5	21.5	42.6	154.2	628.6	335.3	943.6	28.2
38251	INTEGRATING INSTRUMENTS, ELECTRICAL (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	27	8.2	71.0	6.1	12.1	43.5	162.1	53.7	212.5	6.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	20	5.3	46.1	4.0	8.2	29.2	106.5	39.4	141.9	5.1
38252	TEST EQUIP. FOR ELEC., RADIO, COMMUN., MOTORS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	181	30.8	313.0	18.5	37.5	144.3	634.3	344.1	950.6	22.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	141	16.7	163.4	10.0	20.1	74.9	348.3	200.8	534.6	10.9
38253	OTHER ELECTRICAL MEASURING INSTRUMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	109	11.1	98.5	7.2	14.0	50.5	175.3	85.0	262.9	5.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	85	5.4	48.0	3.8	7.2	26.6	87.1	43.2	131.9	2.9
3829	MEASURING AND CONTROLLING DEVICES, NEC										
	ENTIRE INDUSTRY . . . . .	595	21.6	208.5	12.9	25.6	102.4	379.5	199.5	577.7	13.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	273	14.8	150.0	8.7	17.2	73.7	268.8	143.1	410.7	9.5
38291	AIRCRAFT ENGINE INSTRUMENTS, EXC. ELECTRIC (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	17	2.9	25.1	1.9	3.9	12.7	42.8	20.0	65.4	.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	8	1.3	13.1	.8	1.6	6.3	23.4	10.5	35.1	.4
38292	PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	62	3.8	38.4	2.0	4.0	17.8	67.5	39.1	110.5	2.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	54	3.0	30.5	1.5	3.0	13.3	51.0	27.0	81.5	2.2
38293	COMMERCIAL, METEOROLOGICAL, GEN.-PURPOSE INSTRU. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	32	4.3	37.2	2.9	6.0	21.0	71.0	31.0	99.8	2.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	24	2.1	18.9	1.6	3.6	13.5	34.6	14.6	48.2	.6
38294	NUCLEAR RADIATION, DETECTION, MONITORING INSTRU. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	38	6.5	71.1	3.5	6.8	32.5	126.8	76.5	197.2	3.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	30	5.9	65.3	3.2	6.1	29.9	116.8	71.2	182.0	3.7
3832	OPTICAL INSTRUMENTS AND LENSES										
	ENTIRE INDUSTRY . . . . .	491	18.6	191.4	10.2	20.3	84.0	379.8	173.0	531.5	12.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	264	13.7	141.4	7.7	15.3	63.1	297.4	129.5	400.2	8.2
38321	OPTICAL INSTR., LENSES, NOT SIGHT OR FIRE EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	147	14.3	152.9	7.5	15.0	64.0	308.8	143.5	432.9	10.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	120	9.7	106.0	5.2	10.4	45.1	239.1	103.3	316.9	6.3
38322	SIGHTING, FIRE-CONT. EQUIP. FROM OWN LENSES, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	13	1.2	10.2	.8	1.7	5.5	20.3	7.1	25.9	.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38323	SIGHTING, FIRE-CONT. EQUIP. FROM PURCH. LENSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	.7	6.0	.5	.9	3.4	10.2	5.0	15.1	.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	11	.2	1.7	.1	.2	.8	2.1	1.5	4.0	(Z)

(D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry end census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3811	Engineering and scientific instruments....1972..	1,042.0	799.7	128.9	113.4	86	1,106.0	799.7	306.3	72
	.....1967..	1,000.8	781.1	103.9	115.8	88	1,049.0	781.1	267.9	74
3822	Environmental controls.....1972..	728.1	591.4	98.9	37.8	86	658.1	591.4	66.7	90
	.....1967..	618.0	476.2	109.9	31.9	81	523.6	476.2	47.4	91
3823	Process control instruments.....1972..	906.9	656.9	130.5	119.5	83	794.7	656.9	137.8	83
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3824	Fluid meters and counting devices.....1972..	298.0	259.1	29.5	9.4	90	327.4	259.1	68.3	79
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3825	Instruments to measure electricity.....1972..	1,493.5	1,166.0	248.6	78.9	82	1,329.7	1,166.0	163.7	88
	.....1967..	1,184.0	919.9	180.1	84.0	84	1,165.1	919.9	245.2	79
3829	Measuring and controlling devices, n.e.c..1972..	577.7	450.5	78.5	48.7	85	585.9	450.5	135.4	77
	.....1967..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3832	Optical instruments and lenses.....1972..	531.5	464.4	41.0	26.1	92	584.7	464.4	120.3	79
	.....1967..	406.9	335.8	49.3	21.8	87	451.9	335.8	116.1	74

(NA) Not available.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Engineering and scientific instruments (SIC 3811)	Environ- mental controls (SIC 3822)	Process control instruments (SIC 3823)	Fluid meters and counting devices (SIC 3824)	Instruments to measure electricity (SIC 3825)	Measuring and controlling devices, n.e.c. (SIC 3829)	Optical instruments and lenses (SIC 3832)	Other industries
	Total shipment and miscellaneous receipts.....	(X)	1,042.0	728.1	906.9	298.0	1,493.5	577.7	531.5	(X)
3811-	Engineering and scientific instruments.....	1,106.0	799.7	(under 2)	13.3	(under 2)	15.7	(over 2)	11.9	254.0
38111	Aeronautical, nautical, and navigational instruments.....	573.4	342.9	(under 2)	4.8	(under 2)	(over 2)	(5-10)	(under 2)	208.3
38112	Laboratory and scientific instruments.....	335.9	282.3	-	8.5	(under 2)	4.9	3.8	(over 2)	(over 2)
38113	Surveying and drafting instruments and laboratory furniture.....	126.2	106.2	-	-	-	(under 2)	-	(under 2)	(over 2)
38110	Engineering and scientific instruments, n.s.k....	70.2	68.3	-	-	-	(under 2)	(under 2)	(Z)	1.6
38220	Automatic temperature controls.....	658.1	(under 2)	591.4	(under 2)	-	(under 2)	(over 2)	-	55.1
38230	Process control instruments.....	794.7	13.5	26.7	656.9	(over 2)	8.3	8.1	(2-5)	71.8
3824	Fluid meters and counting devices.....	327.4	.9	-	(over 2)	259.1	(under 2)	(under 2)	(under 2)	54.3
38242	Integrating meters, nonelectrical type.....	207.7	(under 2)	-	(under 2)	198.4	-	(under 2)	-	(over 2)
38243	Counting devices.....	48.8	(under 2)	-	1.1	45.4	(under 2)	(Z)	(under 2)	(under 2)
38244	Motor vehicle instruments, except electric.....	70.1	(under 2)	-	(over 2)	14.5	-	(Z)	-	44.8
38240	Fluid meters and counting devices, n.s.k.....	.8	-	-	-	.8	-	-	-	-
3825	Instruments to measure electricity.....	1,329.7	7.5	(Z)	10.3	3.7	1,166.0	2.0	2.2	138.0
38251	Integrating instruments, electrical.....	169.5	(under 2)	(Z)	(under 2)	-	166.8	-	-	(under 2)
38252	Test equipment for electrical radio and communication circuits and motors.....	869.0	(over 2)	-	6.6	(under 2)	741.0	1.5	2.2	113.6
38253	Other electrical measuring instruments.....	223.4	2.3	-	(over 2)	(over 2)	191.0	.5	-	(over 2)
38250	Instruments to measure electricity, n.s.k.....	67.8	-	-	-	-	67.2	-	-	.6

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Engineering and scientific instruments (SIC 3811)	Environmental controls (SIC 3822)	Process control instruments (SIC 3823)	Fluid meters and counting devices (SIC 3824)	Instruments to measure electricity (SIC 3825)	Measuring and controlling devices, n.e.c. (SIC 3829)	Optical instruments and lenses (SIC 3832)	Other industries
Shipments and miscellaneous receipts--Continued										
3829	Measuring and controlling devices, n.e.c.....	585.9	15.5	(under 2)	19.5	(under 2)	16.2	450.5	10.1	71.1
38291	Aircraft engine instruments, except electric....	74.5	3.9	(under 2)	(over 2)	-	(2-5)	50.5	-	(over 2)
38292	Physical properties testing and inspection equipment.....	106.3	2.4	-	1.5	(under 2)	5.2	82.6	(under 2)	(over 2)
38293	Commercial meteorological, and general purpose instruments.....	94.5	3.9	-	(over 2)	-	(over 2)	71.2	-	14.0
38294	Nuclear radiation, detection, and monitoring instruments.....	198.2	(over 2)	(under 2)	12.9	-	(over 2)	155.3	(over 2)	11.4
38290	Measuring and controlling devices, n.e.c., n.s.k.	112.4	(under 2)	-	(under 2)	(under 2)	(under 2)	90.9	(2-5)	(over 2)
3832	Optical instruments and lenses.....	584.7	5.2	-	(under 2)	-	(2-5)	7.8	464.4	103.3
38321	Optical instruments and lenses, except sighting and fire control equipment.....	444.4	(over 2)	-	(under 2)	-	(under 2)	(over 2)	368.7	65.0
38322	Sighting and fire control equipment made from manufactured lenses, etc.....	51.1	(under 2)	-	-	-	(over 2)	(2-5)	29.3	(over 2)
38323	Sighting and fire control equipment made from purchased lenses.....	32.0	(under 2)	-	-	-	-	-	10.3	(over 2)
38320	Optical instruments and lenses, n.s.k.....	57.2	(under 2)	-	-	-	-	-	56.1	(under 2)
Other product shipments by 4-digit product group:										
2522	Metal office furniture.....	(X)	(2-5)	-	-	-	-	-	-	(X)
3079	Miscellaneous plastics products.....	(X)	(under 2)	-	-	(over 2)	-	-	-	(X)
3231	Products of purchased glass.....	(X)	-	-	(over 2)	-	(under 2)	-	-	(X)
3443	Fabricated platework (boiler shops).....	(X)	(under 2)	-	(over 2)	-	-	(under 2)	-	(X)
3444	Sheet metal work.....	(X)	-	(5-10)	-	-	-	-	-	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3494	Valves and pipe fittings.....	(X)	(2-5)	(2-5)	15.8	(5-10)	(under 2)	2.3	-	(X)
3499	Fabricated metal products, n.e.c.....	(X)	(under 2)	-	(over 2)	-	-	-	-	(X)
3545	Machine tool accessories.....	(X)	-	(over 2)	-	(Z)	-	(under 2)	(under 2)	(X)
3555	Printing trades machinery.....	(X)	-	-	-	-	(2-5)	-	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	(under 2)	-	-	(under 2)	(over 2)	(under 2)	(over 2)	(X)
3561	Pumps and pumping equipment.....	(X)	-	(over 2)	-	(under 2)	-	(under 2)	-	(X)
3563	Air and gas compressors.....	(X)	(over 2)	-	-	-	-	-	-	(X)
3573	Electronic computing equipment.....	(X)	(under 2)	-	(2-5)	-	7.2	(under 2)	-	(X)
3574	Calculating and accounting machines.....	(X)	(under 2)	-	(under 2)	-	(20-50)	(under 2)	-	(X)
3589	Service industry machinery, n.e.c.....	(X)	(under 2)	-	(over 2)	-	-	-	-	(X)
3612	Transformers.....	(X)	(Z)	-	(under 2)	-	(10-20)	(Z)	-	(X)
3613	Switchgear and switchboard apparatus.....	(X)	-	-	-	-	5.0	-	-	(X)
3621	Motors and generators.....	(X)	(under 2)	(5-10)	(under 2)	-	1.2	(Z)	(under 2)	(X)
3622	Industrial controls.....	(X)	(5-10)	(10-20)	4.6	(under 2)	16.1	(under 2)	-	(X)
3629	Electrical industrial apparatus, n.e.c.....	(X)	-	-	-	-	(5-10)	-	-	(X)
3634	Electric housewares and fans.....	(X)	-	(2-5)	-	-	-	-	-	(X)
3643	Current-carrying wiring devices.....	(X)	(under 2)	(2-5)	-	-	(2-5)	(under 2)	-	(X)
3651	Radio and TV receiving sets.....	(X)	-	-	-	-	(2-5)	(under 2)	-	(X)
3661	Telephone and telegraph apparatus.....	(X)	(under 2)	-	-	-	(5-10)	-	-	(X)
3662	Radio and TV communication equipment.....	(X)	15.5	(under 2)	14.2	(under 2)	38.7	13.5	1.4	(X)
3679	Electronic components, n.e.c.....	(X)	(2-5)	-	3.7	(under 2)	53.1	1.4	(2-5)	(X)
3693	X-ray apparatus and tubes.....	(X)	(under 2)	-	(Z)	-	(2-5)	(under 2)	-	(X)
3714	Motor vehicle parts and accessories.....	(X)	(under 2)	-	(over 2)	-	-	-	-	(X)
3721	Aircraft.....	(X)	(over 2)	-	-	-	-	-	(under 2)	(X)
3728	Aircraft equipment, n.e.c.....	(X)	3.1	-	(under 2)	-	(2-5)	(over 2)	-	(X)
3841	Surgical and medical instruments.....	(X)	(2-5)	-	-	-	(2-5)	(5-10)	0.4	(X)
3861	Photographic equipment and supplies.....	(X)	(2-5)	-	-	-	(over 2)	(under 2)	2.0	(X)
3873	Watches, clocks, and watchcases.....	(X)	(under 2)	(10-20)	-	-	-	-	-	(X)
3999	Manufacturing industries, n.e.c.....	(X)	(under 2)	(over 2)	-	-	-	(under 2)	-	(X)
Miscellaneous receipts, total.....										
9300000	Contract work.....	(X)	113.4	37.8	119.5	9.4	78.9	48.7	26.1	(X)
9999801	Sales of scrap and refuse.....	(X)	2.7	.2	.5	.1	4.1	13.0	2.0	(X)
9998031	Receipts for installation.....	(X)	.2	(2-5)	.8	1.3	2.2	.4	.1	(X)
9998041	Receipts for research and developmental work.....	(X)	6.6	(over 2)	50.0	-	(under 2)	(5-10)	(Z)	(X)
9998061	Receipts for repair work.....	(X)	17.2	(Z)	3.6	(under 2)	(over 2)	.7	.5	(X)
9998098	Other miscellaneous receipts.....	(X)	7.7	.3	12.6	3.0	11.0	(over 2)	.6	(X)
9998900	Resales.....	(X)	11.8	(under 2)	7.5	(under 2)	12.5	6.4	2.3	(X)
		(X)	67.2	21.6	44.5	3.8	43.0	17.8	20.6	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries
	Listing of other industries with over \$2 million shipments of primary products			Listing of other industries with over \$2 million shipments of primary products--Continued	
3811	2522 Metal office furniture.....	(over 2)	3823	3679 Electronic components, n.e.c.....	3.5
	2834 Pharmaceutical preparations.....	(over 2)		3714 Motor vehicle parts and accessories.....	(over 2)
	3231 Products of purchased glass.....	(over 2)		3842 Surgical appliances and supplies.....	(over 2)
	3423 Hand and edge tools, n.e.c.....	(over 2)			
	3483 Ammunition, except for small arms, n.e.c.....	(over 2)	3824	3494 Valves and pipe fittings.....	(2-5)
				3561 Pumps and pumping equipment.....	(2-5)
	3574 Calculating and accounting machines.....	(2-5)		3714 Motor vehicle parts and accessories.....	(over 2)
	3621 Motors and generators.....	5.6			
	3662 Radio and TV communication equipment.....	100.1	3825	3443 Fabricated platework (boiler shops).....	(over 2)
	3679 Electronic components, n.e.c.....	7.1		3573 Electronic computing equipment.....	4.9
				3613 Switchgear and switchboard apparatus.....	9.8
	3721 Aircraft.....	(10-20)		3661 Telephone and telegraph apparatus.....	(20-50)
	3728 Aircraft equipment, n.e.c.....	(20-50)		3662 Radio and TV communication equipment.....	62.0
	3743 Railroad equipment.....	(over 2)		3673 Electron tubes, transmitting.....	(2-5)
	3841 Surgical and medical instruments.....	6.0		3679 Electronic components, n.e.c.....	8.6
	3861 Photographic equipment and supplies.....	(2-5)		3714 Motor vehicle parts and accessories.....	(2-5)
	3873 Watches, clocks, and watchcases.....	(5-10)			
3822	3494 Valves and pipe fittings.....	14.6	3829	3483 Ammunition, except for small arms, n.e.c.....	(over 2)
	3585 Refrigeration and heating equipment.....	(5-10)		3494 Valves and pipe fittings.....	8.5
	3613 Switchgear and switchboard apparatus.....	(10-20)		3498 Fabricated pipe and fittings.....	(over 2)
	3622 Industrial controls.....	(5-10)		3549 Metalworking machinery, n.e.c.....	(2-5)
	3651 Radio and TV receiving sets.....	(over 2)		3559 Special industry machinery, n.e.c.....	(2-5)
	3714 Motor vehicle parts and accessories.....	(over 2)		3662 Radio and TV communication equipment.....	10.9
				3841 Surgical and medical instruments.....	(5-10)
3823	3357 Nonferrous wire drawing and insulating.....	(2-5)	3832	3585 Refrigeration and heating equipment.....	(over 2)
	3494 Valves and pipe fittings.....	(10-20)		3662 Radio and TV communication equipment.....	39.9
	3549 Metalworking machinery, n.e.c.....	(2-5)		3673 Electron tubes, transmitting.....	(10-20)
	3559 Special industry machinery, n.e.c.....	(5-10)		3679 Electronic components, n.e.c.....	(2-5)
	3576 Scales and balances, except laboratory.....	(over 2)		3724 Aircraft engines and engine parts.....	(over 2)
	3662 Radio and TV communication equipment.....	12.8		3851 Ophthalmic goods.....	(20-50)
	3673 Electron tubes, transmitting.....	(over 2)		3861 Photographic equipment and supplies.....	5.6

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1972				
3811- --	ENGINEERING AND SCIENTIFIC INSTRUMENTS.....		(X)	1,106.0
38111 --	Aeronautical, Nautical, and Navigational Instruments, and Automatic Pilots: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	573.7
	As reported in Current Industrial Reports, series MA-38B.....		(X)	555.9
	Flight and navigation sensors, transmitters and displays:			
38111 01	Compasses (magnetic and gyroscopic).....		(X)	18.1
38111 03	Radio navigation receivers and displays (including omni, radio magnetic, glide slope/localizer, DME, etc.).....		(X)	13.3
38111 08	Altimeters (except radio and radar altimeters).....		(X)	24.2
38111 10	Air speed indicators (including machmeters and air data computers).....		(X)	23.8
38111 12	Acceleration indicators.....	1,000 units.....	12.0	9.3
38111 13	Rate-of-climb indicators.....	do.....		
38111 15	Angle-of-attack indicators.....		(X)	3.1
38111 17	Bank and turn indicators.....			
38111 22	Artificial horizon flight instruments.....	1,000 units.....	7.8	10.1
38111 20	Other aerospace and navigational instruments.....		(X)	15.1
	Gyroscopes sold separately:			
38111 21	Vertical.....	1,000 units.....	7.6	8.0
38111 23	Directional.....	do.....	16.9	7.9
38111 25	Free, torqued and untorqued.....		(X)	25.1
38111 26	Rate, inertial grade.....			
38111 28	Rate, non-inertial grade.....		(X)	11.1
38111 44	Complete automatic pilots (both gyroscopic and non-gyroscopic). Airframe equipment instruments:	1,000 units.....	11.4	69.4
38111 61	Position indicators (mechanical, as for landing gear, cow1 flaps, stabilizers, etc.).....		(X)	2.5
38111 63	Hydraulic system (both electrical and mechanical measuring means, as for liquid level and temperature and pressure indicators).....		(X)	6.5
38111 64	Cabin environmental measuring and control instrument (air-conditioning and heating, cabin pressure, oxygen, etc.).....		(X)	21.7
38111 66	Airborne integrated data systems/flight recorders.....		(X)	9.0
38111 68	Distance measuring equipment.....		(X)	13.8
38111 70	Flight directors/situation display.....			
38111 74	Heads-up display (HUD) systems.....		(X)	-
38111 76	Inertial navigation systems.....		(X)	163.0
38111 78	Proximity warning/collision avoidance equipment.....		(X)	90.6
38111 80	Other aerospace flight instruments.....			
38111 85	Nautical instruments, all types.....	1,000 units.....	(NA)	10.3
38112 --	Laboratory and Scientific Instruments: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	<sup>2</sup> 335.9
	As reported in Current Industrial Reports, series MA-38B.....		(X)	<sup>2</sup> 145.9
38112 21	Laboratory balances and scales.....		(X)	22.2
38112 23	Laboratory furnaces and ovens.....		(X)	7.0
38112 25	Laboratory centrifuges.....		(X)	37.6
38112 27	Laboratory evaporation and distillation apparatus.....		(X)	8.8
38112 28	Laboratory sterilizers and autoclaves.....			
38112 29	Other laboratory apparatus including shakers, stirrers, diluters, dispensers, microtomes, etc.....		(X)	70.4
38113 --	Surveying and Drafting Instruments and Laboratory Furniture.....		(X)	126.2
38113 31	Surveying and drafting instruments and apparatus, except optical, including surveying instruments, transits, drawing instruments, drafting machines, slide rules, planimeters, integrators, etc....		(X)	32.2
38113 41	Photogrammetric and geodetic equipment, excluding cameras.....		(X)	2.4
38113 71	Laboratory precision balances, including accessories, attachments, and parts.....			
	Laboratory furniture:			
	Cabinets and cases:			
38113 81	Wood.....		(X)	32.6
38113 85	Metal.....		(X)	32.6
38113 89	Other (tables, stools, reagent shelves, etc.).....		(X)	12.1
38113 00	Survey and drafting instruments and laboratory furniture, n.s.k....		(X)	14.3
38110 00	Engineering and scientific instruments, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	50.7
38110 02	Engineering and scientific instruments, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	19.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1967				
3811- --	ENGINEERING AND SCIENTIFIC INSTRUMENTS.....		(X)	1,049.0
38111 --	Aeronautical, Nautical, and Navigational Instruments, and Automatic Pilots: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	<sup>3</sup> 585.5
	As reported in Current Industrial Reports, series MA-38B.....		(X)	<sup>3</sup> 487.9
	Flight and navigation instruments:			
38111 01	Compasses (except radio).....	1,000 units.....	(NA)	31.7
38111 04	Omni-bearing indicators (for visual-omni-range systems)....		(X)	( <sup>4</sup> )
38111 05	Radio magnetic indicators.....		(X)	( <sup>4</sup> )
38111 06	Glide slope indicators.....		(X)	( <sup>4</sup> )
38111 07	Pictorial deviation indicators.....		(X)	( <sup>4</sup> )
38111 08	Altimeters (except radio altimeters).....	1,000 units.....	(NA)	9.1
38111 09	Air speed indicators.....	do.....	(NA)	6.2
38111 11	Machmeters.....		(X)	( <sup>4</sup> )
38111 12	Acceleration indicators.....	1,000 units.....	(NA)	3.5
38111 13	Rate-of-climb indicators.....	do.....	7.0	4.1
38111 14	Driftmeters.....		(X)	( <sup>4</sup> )
38111 15	Angle-of-attack indicators.....		(X)	( <sup>4</sup> )
38111 16	Angle-of-yaw indicators.....		(X)	( <sup>4</sup> )
38111 17	Bank and turn indicators.....	1,000 units.....	} 32.6	43.0
38111 18	Horizon flight indicators.....	do.....		
38111 19	Sextants.....		(X)	( <sup>4</sup> )
38111 20	Other flight and navigation instruments.....		(X)	<sup>4</sup> 11.3
	Gyroscopes (sold separately):			
38111 21	Vertical.....	1,000 units.....	19.7	20.0
38111 23	Directional.....	do.....	(NA)	4.2
38111 25	Free, torqued and untorqued.....	do.....	(NA)	9.5
38111 27	Rate.....	do.....	(NA)	24.7
38111 41	Integrating rate (nonfloated).....	do.....	} (NA)	14.5
38111 43	Fully floated.....	do.....		
38111 44	Complete automatic pilots (both gyroscopic and nongyroscopic).	do.....	25.0	105.7
	Airframe equipment instruments:			
38111 61	Position indicators (mechanical, as for landing gear, cowl flaps, stabilizers, etc.).....		(X)	2.8
38111 62	Electrical system (ammeters, load meters, frequency meters, etc.).....		(X)	1.1
38111 63	Hydraulic system (both electrical and mechanical measuring means, as for liquid level and temperature and pressure indicators).....		(X)	3.0
38111 64	Cabin air conditioning and heating (both electrical and mechanical means; indicators for differential pressure, air temperature, and air flow; and compressor tachometers).		(X)	5.3
	Regulating and controlling instruments:			
38111 71	Electrical (air combustion, air pressure, cabin pressure, etc.)..		(X)	( <sup>5</sup> )
38111 72	Mechanical (coolant, demand oxygen, oil pressure, etc.).....		(X)	18.2
38111 98	Other aeronautical; nautical; and navigational instruments.....		(X)	<sup>5</sup> 170.0
38112 00	Laboratory and scientific instruments <sup>1</sup>			
	As reported in census of manufactures.....		(X)	259.7
	As reported in Current Industrial Reports, series MA-38B.....		(X)	231.3
38112 62	Electronic laboratory standards and calibrating equipment...		(X)	15.0
38112 63	Electrical laboratory standards and calibrating equipment...		(X)	7.3
38112 64	All other laboratory and scientific instruments, excluding aircraft, nautical, and navigational instruments and apparatus, electrical quantity measuring instruments, and industrial instruments.....		(X)	209.1
38113 --	Surveying and drafting instruments and laboratory instruments...		(X)	139.4
38113 31	Surveying and drafting instruments and apparatus, except optical, (including surveying, transits, drawing instruments, drafting machines, slide rules, planimeters, integrators, etc.).....		(X)	24.0
38113 41	Photogrammetric equipment, including cameras.....		(X)	5.9
38113 71	Laboratory precision balances, including accessories, attachments, and parts.....		(X)	6.5
	Laboratory furniture:			
	Cabinets and cases:			
38113 81	Wood.....		(X)	63.0
38113 85	Metal.....		(X)	30.3
38113 89	Other (tables, stools, reagent shelves, etc.).....		(X)	4.1
38113 00	Surveying and drafting instruments and laboratory instruments, n.s.k.....		(X)	5.7
38110 00	Engineering and scientific instruments, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	55.2
38110 02	Engineering and scientific instruments, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	9.4

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3822- --	AUTOMATIC ENVIRONMENTAL CONTROLS, TOTAL.....		(X)	658.1	(X)	523.6
38220 --	Automatic Temperature Controls for Monitoring Residential and Commercial Environments and Appliance Regulating Controls: <sup>1</sup>					
	As reported in the census of manufactures.....		(X)	658.1	(X)	523.6
	As reported in Current Industrial Reports, series MA-38B.....	1,000 units...	(NA)	645.6	(NA)	522.2
	Automatic temperature controls of the type principally used as components of air conditioning, refrigeration, and comfort heating (including pneumatic controls):					
38220 20	Temperature responsive (thermostats).....	...do.....	(NA)	287.6		
38220 25	Pressure responsive (pressurstats).....	...do.....	(NA)	55.5		
38220 30	Hydronic responsive.....	...do.....				
38220 35	Humidity responsive (humidistats).....	...do.....				
38220 40	Light responsive.....	...do.....				
38220 45	Electrostatic responsive.....	...do.....	(NA)	10.8		
38220 50	Liquid level.....	...do.....				
38220 55	Defrost controls (except appliance regulators).....	...do.....				
38220 60	Igniters.....	...do.....			(NA)	522.2
38220 65	Inherent motor protectors.....	...do.....				
38220 70	Other.....	...do.....	(NA)	92.1		
	Controls for major appliances such as domestic laundry and cooking appliances, refrigerators and freezers, vending machines, and air conditioners:					
38220 75	Temperature responsive.....	...do.....	(NA)	156.1		
38220 80	All other controls for appliances.....	...do.....	(NA)	43.6		
	Product		Total product shipments including interplant transfers			
			Quantity	Value		
			(1,000 units)	(million dollars)		
			1972			
3823- --	PROCESS CONTROL INSTRUMENTS					
38230 --	Industrial Instruments for Measurement, Display and Control of Process Variables: <sup>1</sup>					
	As reported in census of manufactures.....		(X)	794.7		
	As reported in Current Industrial Reports, series MA-38B <sup>1</sup> .....		(X)	729.5		
	Electrical and electronic types (a.c. or d.c. milliampere or millivolt or telemetering signals):					
38230 35	Controllers (recording, indicating, or blind).....			21.4	16.1	
38230 36	Recorders, with or without self-contained set-point stations.....			18.6	12.5	
38230 37	Indicators, with or without self-contained set-point stations.....			15.0	5.5	
38230 38	Auxiliary stations and analog computing devices associated with the above (include manual loaders, auto-to-manual stations, radio stations, adders, multipliers, integrators, etc.).....			30.2	9.5	
	Pneumatic types (3 to 15 and 3 to 27 p.s.i. standardized signals):					
38230 39	Controllers (recording, indicating, or blind).....			24.3	11.0	
38230 40	Recorders, with or without self-contained set-point stations.....			14.8	8.2	
38230 41	Indicators, with or without self-contained set-point stations.....			6.3	2.8	
38230 42	Auxiliary stations and analog computing devices associated with the above (include manual loaders, auto-to-manual stations, radio stations, adders, multipliers, integrators, etc.).....			14.9	6.6	
38230 43	Receiver-type gauges, analog and digital.....					
38230 44	Annunciators (industrial), electro-mechanical and solid-state types.....			(NA)	5.8	
	Temperature instruments, exclude receiver-type instruments:					
	Electrical and electronic measuring types (thermocouple, resistance temperature detector, radiation, optical, thermistor, and other electrical sensors):					
38230 45	Direct-deflecting types (controllers for all types of electrical temperature sensors).....		(NA)	5.7		
38230 46	Direct-deflecting types (indicators and recorders for all types of electrical temperature sensors)..		9.0	1.5		
38230 47	Self-balancing types (electric or pneumatic controllers for all types of electrical temperatures sensors).....		(NA)	14.3		
38230 48	Self-balancing types (indicators, recorders and integrators for all types of electrical temperature sensors).....		10.0	9.8		
38230 49	Potentiometric setpoint electronic controllers for all types of electrical temperature sensors..		(NA)	10.1		
38230 50	Digital types for all types of electrical temperature sensors.....		2.3	2.3		
38230 51	Transmitters, producing standardized electric or pneumatic analog transmission signals for all types of electrical temperature sensors.....		7.8	2.9		
	Mechanical measuring types:					
	Filled system (liquid filled, vapor pressure, gas filled, and mercury filled types):					
38230 52	Indicating or recording controllers.....		119.6	13.9		
38230 53	Recorders, non-control.....		10.7	2.9		
38230 56	Indicators only (exclude indoor-outdoor and other household or appliance type thermometers)..		(X)	20.8		
38230 57	Transmitters producing standardized electric or pneumatic analog transmission signals.....		(X)	2.7		

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers	
		Quantity	Value
		(1,000 units)	(million dollars)
1972			
3823- --	PROCESS CONTROL INSTRUMENTS--Continued Industrial Instruments for Measurement, Display and Control of Process Variables--Continued As reported in Current Industrial Reports, series MA-38B--Continued Primary temperature sensores (exclude aircraft types):		
38230 59	Thermocouples and thermocouple lead wire.....	(X)	21.0
38230 60	All other types (resistance temperature detectors, radiation and optical sensors, thermistors, etc.).....	(X)	14.6
	Pressure (gauge, absolute, vacuum) and draft instruments connected to the process (exclude receiver-type instruments and receiver-type gauge):		
38230 61	Indicating or recording controllers.....	51.7	9.7
38230 62	Recorders, non-control.....	6.5	1.5
38230 63	Indicators only (exclude receiver type gauges).....	14,413.4	59.4
38230 64	Transmitters, producing standardized analog transmission signals.....	28.8	10.5
	Flow and liquid level instruments connected to the process:		
	Differential pressure types:		
38230 65	Indicating or recording controllers.....	8.9	5.0
38230 66	Recorders (non-control), and indicators (non-control).....	36.4	11.4
38230 67	Transmitters producing standardized analog transmission signals.....	55.8	23.0
38230 68	Primary flow elements (include orifice plates, venturi tubes, flow tubes, flow nozzles, and pitot tubes).....	(NA)	7.3
	Electromagnetic, capacitance, and other electronic types:		
38230 69	Controlling, recording, indicating and transmitting instruments.....	23.4	10.2
38230 70	Primary flow elements (include magnetic flow tubes, capacitance, magnetic resonance, and vortex precession-type elements.).....	6.0	9.4
38230 71	Variable area-controlling (recording, indicating and transmitting instruments and associated primary flow elements).....	164.3	21.1
38230 72	Float and displacement (controlling, recording, indicating and transmitting instruments and associated primary flow elements).....	210.2	14.3
38230 73	Turbine, mass-flow and other types (controlling, recording, indicating and transmitting instruments and associated primary flow elements).....	14.4	6.2
38230 74	Humidity instruments (controlling, recording, indicating and transmitting, and associated primary humidity elements, excluding home and general purpose type).....	3.5	1.9
	Continuous process instruments for on-stream gas and liquid analysis (include indicators, recorders, controllers, and analysis electrodes and cells, exclude laboratory analysis types.):		
38230 75	Chromatographic analyzers.....	7.4	8.5
38230 76	Infrared analyzers.....	1.7	17.6
38230 77	Oxygen analyzers.....	4.6	13.2
38230 78	Other gas analyzers.....	(NA)	12.2
38230 79	PH analyzers.....		
38230 80	Other liquid analyzers.....		
	Instruments for all process variables not listed above (speed, weight, position, sequence, density, specific gravity, mechanical load, electrical load, millivolts):		
	Electrical and electronic measuring types		
38230 81	Direct-deflecting type controllers.....	18.6	2.6
38230 82	Direct-deflecting type indicators and recorders.....		
38230 83	Self-balancing type electric or pneumatic controllers.....	(X)	1.8
38230 84	Self-balancing type indicators, recorders, integrators.....	6.7	1.3
38230 85	Digital types.....		
38230 86	Transmitters producing standardized electric or pneumatic analog transmission signals.....		
	Mechanical measuring types:		
38230 87	Indicating or recording controllers.....	(NA)	6.9
38230 88	Recorders, non-controllers.....		
38230 89	Indicators only.....	30.6	10.8
38230 90	Transmitters, producing standardized electric or pneumatic analog transmission signals.....		
38230 91	Parts, supplies, accessories, other primary sensors, n.e.c., panelboards and other equipment associated with process control instrumentation, n.e.c.....	(X)	99.8
	All other industrial process instruments:		
38230 95	Electronic types.....	(X)	108.7
38230 97	Other types.....	(X)	55.0
1967			
38230 --	PROCESS CONTROL INSTRUMENTS: <sup>1</sup> As reported in census of manufactures..... As reported on Census Annual Form MA-38B.....	(X) (X)	(NA) 601.7
	Temperature instruments:		
	Electrical and electronic measuring types (thermocouple, resistance thermometer, radiation, optical, etc.):		
38230 01	Direct-deflecting type (indicators, recorders and controllers for all types of temperature detectors).....	2,526.6	13.9
38230 02	Self-balancing types (indicators, recorders, electric or pneumatic controllers and transmitters for thermocouple and resistance thermometer detectors).....	49.5	46.1
38230 03	Self-balancing types (indicators, recorders, electric or pneumatic controllers and transmitters for radiation and optical type detectors).....		
	Filled system:		
38230 08	Indicators only.....	1,427.4	10.8
38230 09	Recorders, indicating or recording controllers, self-actuated controllers and transmitters with electric or pneumatic output.....	191.1	22.4

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers		
		Quantity	Value	
		(1,000 units)	(million dollars)	
		1967		
38230 --	PROCESS CONTROL INSTRUMENTS--Continued As reported on Census Annual Form MA-38B--Continued			
	Pressure, Draft and Vacuum Instruments:			
38230 10	Electrical and electronic measuring types, including indicators, recorders, controllers and transmitters with electric or pneumatic output.....	(X)	13.0	
	Mechanical measuring types:			
38230 11	Indicators only.....	(X)	73.3	
38230 12	Recorders, indicating or recording controllers, self-actuated controllers and transmitters with electric or pneumatic output.....	(X)	27.4	
	Flow and Liquid Level Instruments (Including Indicators, Recorders, Controllers and Transmitters with Electric or Pneumatic Output):			
38230 13	Electromagnetic, capacitance and electronic types.....	(X)	19.6	
38230 14	Differential pressure types (diaphragm, bellows, liquid seal, etc.).....	(X)	49.2	
38230 15	Other types (variable area, float and displacement, positive displacement, turbing, mass-flow, etc.)	(X)	32.6	
38230 16	Humidity Instruments (All Types).....	(X)	6.0	
	Continuous Process Gas and Liquid Analysis Instruments (on Stream Types Only):			
38230 17	Chromatographic.....	(X)	8.6	
38230 18	Other gas analysis types.....	(X)	22.2	
38230 19	Other liquid analysis types.....	(X)	7.8	
	Instruments for all Variables not Listed Above (Speed, Mechanical and Electrical Load, Viscosity, Position, Density, Specific Gravity, Sequence, Time Interval, Millivolts, Etc.):			
	Electrical and electronic measuring types, including indicators, recorders, controllers and transmitters with electric or pneumatic output:			
38230 20	Self-balancing types.....	(X)	16.0	
38230 21	Direct-deflecting types.....			
38230 22	Mechanical measuring types (including indicators, recorders, controllers, and transmitters with electric or pneumatic output).....	(X)	23.1	
	General Purpose Process Display and Control Instruments which Operate from Standard Transmitted Signals:			
	Electrical and electronic types (a.c. or d.c. milliampere or millivolt or telemetering signals):			
38230 23	Indicators only.....	(X)	1.8	
38230 24	Blind controllers.....	(X)	7.9	
38230 25	Indicators with set-point stations, indicating controllers, integrators, recorders with or without self-contained set-point stations, recording controllers and separately-mounted set-point stations.....	(X)	22.7	
38230 26	Pneumatic types (3 to 15 and 3 to 27 p.s.i. standard signals), indicators only.....	(X)	2.3	
38230 27	Blind controllers.....	(X)	5.1	
38230 28	Indicators with set-point stations, indicating controllers, integrators, recorders with or without self-contained set-point stations, recording controllers and separately-mounted set-point stations.....	(X)	20.5	
38230 29	Parts for Process Type Instruments and Control.....	(X)	78.6	
	All other industrial process instruments:			
38230 95	Electronic types.....	(X)	24.2	
38230 97	Other types.....	(X)	46.6	
	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value (million dollars)
			1972	
3824- --	TOTALIZING FLUID METERS AND COUNTING DEVICES, TOTAL.....		(X)	327.4
38242 00	Totalizing Fluid Meters: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	207.7
	As reported in Current Industrial Reports, series MA-38B.....		(X)	211.6
	Gas meters, consumption registering:			
	Diaphragm type--positive displacements: Aluminum, iron, and tin case:			
38242 22	Residential size (up to 400 cu. ft./hr. of 0.64 specific gravity gas, at 0.5 inches water drop).....	1,000 units.....	(NA)	62.2
38242 24	Other sizes, including commercial and industrial.....	....do.....		
38242 26	Rotary type (all sizes).....	....do.....	(NA)	11.7
38242 28	Turbine type (all sizes).....	....do.....		
	Liquid meters, positive displacement with registers and counters:			
38242 31	Water meters, residential consumption registering.....	....do.....	1,465.2	74.4
38242 41	Gasoline dispensing meters (exclude service station dispensing pumps).....	....do.....	240.4	21.7
38242 98	Other liquid meters; industrial bulk plants, pipeline, batching, treatment facilities.....	....do.....	130.2	20.3
38242 99	Parts for fluid meters.....		(X)	21.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1972				
3824- --	TOTALIZING FLUID METERS AND COUNTING DEVICES--Continued			
38243 --	Counting Devices: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	48.8
	As reported in Current Industrial Reports, series MA-38B.....		(X)	48.0
	Revolution counters, digital (including totalizing, predetermining, reset and production types, tally counters, lineal counters, measuring wheels and vehicle operation registers):			
38243 61	Mechanical input.....		(X)	22.1
38243 64	Electrical input.....		(X)	10.2
38243 67	Electronic input.....			
38243 70	Pneumatic input.....			
38243 73	Other counters, including centrifugal tachometers and event recorders.....		(X)	15.7
38243 76	Taximeters.....			
38244 --	Motor Vehicle Instruments, Except Electric.....		(X)	70.1
38244 11	Speedometers for motor vehicles.....			
38244 98	Other motor vehicle indicating instruments, except electric (fuel level, oil pressure, etc.).....		(X)	70.1
38244 00	Motor vehicle instruments, except electric, n.s.k.....			
38240 00	Fluid meters and counting devices, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	.8
38240 02	Fluid meters and counting devices, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	-
1967				
3824- --	MECHANICAL MEASURING DEVICES, TOTAL.....		(X)	(NA)
38242 --	Integrating meters, nonelectrical type: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	189.2
	As reported on Census Annual Form MA-38B.....		(X)	177.7
38242 11	Gas meters.....	1,000 units.....	1,396.5	57.6
38242 31	Water meters.....	...do.....	1,203.1	69.2
38242 41	Gasoline dispensing meters.....	...do.....	263.3	21.3
38242 98	Other nonelectric integrating meters.....	...do.....	189.7	19.9
38242 00	Integrating meters, nonelectrical type, n.s.k.....		(X)	9.7
38243 --	Other mechanical measuring and controlling instruments: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	(NA)
	As reported on Census Annual Form MA-38B.....		(X)	52.0
	Mechanical measuring instruments:			
38243 71	Revolution counters.....		(X)	52.0
38243 51	Other mechanical measuring instruments.....			
38244 --	Motor vehicle instruments, except electric.....		(X)	71.4
38244 11	Speedometers for motor vehicles.....		(X)	59.6
38244 98	Other motor vehicle indicating instruments, except electric (fuel level oil pressure, etc.).....		(X)	11.1
38244 00	Motor vehicle instruments, except electric, n.s.k.....		(X)	.7
38240 00	Mechanical measuring devices, n.s.k., represents establishments with 10 employees or more in 1967. (See note.).....		(X)	37.1
38240 02	Mechanical measuring devices, n.s.k., represents establishments with less than 10 employees in 1967. (See note.).....		(X)	10.1
1972				
3825- --	INSTRUMENTS TO MEASURE ELECTRICITY.....		(X)	1,329.7
38251 --	Integrating Instruments, Electrical: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	169.5
	As reported in Current Industrial Reports, series MA-38B.....		(X)	156.7
	A.c. watt-hour meters:			
	Single phase:			
38251 10	Detachable types.....	Million units.....		
38251 11	A-base types.....	...do.....	4,710.1	67.3
38251 14	Switchboard types.....	...do.....		
38251 15	Polyphase.....	...do.....	329.5	14.9
38251 35	Demand meters (kw and kva), combined watt-hour and demand meters (single phase and polyphase), and combined watt-hour and time switch meters.....	...do.....	347.2	32.5
38251 51	Other electrical integrating meters (including d.c. watt-hour meters, ampere-hour meters, and other miscellaneous integrating instruments not included in the above classifi- cations).....			
38251 61	Parts for electric integrating meters (including meter mountings, registers, and test equipment) sold separately....		(X)	42.0

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1972				
3825- --	INSTRUMENTS TO MEASURE ELECTRICITY--Continued			
38252 --	Test Equipment for Testing Electrical, Radio, and Communication Circuits, and Motors: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	869.0
	As reported in Current Industrial Reports, series MA-38B.....		(X)	830.
	Voltage, current, and resistance measuring equipment (except multimeters):			
	Electronic:			
38252 20	Digital.....		(X)	29.1
38252 21	Analog.....		(X)	20.3
38252 22	Electrical (service-type equipment) (do not report panel meters; they should be reported elsewhere on this form under codes 38253 14-18).....		(X)	7.3
	Multimeters:			
38252 23	Electronic.....		(X)	21.1
38252 24	Electrical.....			
	Power and energy measuring equipment:			
	Electronic:			
38252 25	Analog.....		(X)	9.2
38252 26	Digital.....			
38252 27	Electrical power measuring equipment (report electrical integrating instruments, sold separately, under the appropriate code(s) beginning with 38251).....			
	Frequency measuring equipment:			
	Electronic frequency meters:			
38252 67	890 megacycle and above.....		(X)	33.4
38252 68	Other.....			
38252 69	Electrical and mechanical frequency meters.....	Million units.....	95.5	3.7
	Waveform measuring and/or analyzing equipment:			
	Oscilloscopes and plug-in accessories:			
38252 12	Under 10 mc.....		(X)	130.0
38252 13	10 mc. and over.....			
38252 14	Oscillographs (low frequency).....			
38252 16	Other waveform measuring and analyzing equipment.....			
	Signal generating equipment:			
38252 56	Audio.....		(X)	14.8
38252 58	RF (over 20 kc. to 899 megacycles).....		(X)	27.4
38252 59	Microwave (890 megacycles and above).....		(X)	21.7
	Field strength and intensity measuring equipment (including RFI measuring equipment):			
38252 91	Electronic.....		(X)	20.1
38252 92	Electrical field measuring equipment.....			
	Impedance and standing wave ratio measuring equipment (transfer function measuring equipment):			
38252 93	Electronic impedance and related measuring equipment.....		(X)	5.7
38252 94	Standing wave measuring equipment (slotted lines, sliding shorts, reflectometers, and other SWR equipment).....		(X)	3.6
38252 96	Electronic time measuring and counting equipment (electronic chronoscopes and chronometers, range calibrators, time interval measuring equipment, etc.) (do not report mechanical types).....		(X)	27.0
	X-Y plotters (recorders):			
38252 97	Electronic.....		(X)	18.8
38252 99	Other than electronic.....		-	-
	Multifunction test and measuring equipment:			
38252 44	Combination and/or group test sets.....		(X)	48.1
	Component part test sets:			
38252 45	Electron tube test equipment.....		(X)	4.2
38252 46	Semiconductor test equipment.....		(X)	29.9
38252 47	Other component part test sets and equipment.....		(X)	3.2
38252 48	Equipment and subassembly test equipment, n.e.c.....		(X)	62.1
	Standards and calibration equipment for test measuring equipment, including laboratory types:			
38252 72	Electronic.....		(X)	7.4
38252 74	Electrical.....		(X)	5.2
38252 52	Microwave test equipment, n.e.c. (890 megacycles and above)....		(X)	21.8
38252 39	Analyzers for testing characteristics of internal- combustion engines.....		(X)	92.

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value  (million dollars)
1972				
3825- --	INSTRUMENTS TO MEASURE ELECTRICITY—Continued			
38252 --	Test Equipment for Testing Electrical, Radio, and Communication Circuits, and Motors—Continued			
	As reported in Current Industrial Reports, series MA-38B—Con.			
38252 82	Associated devices for electronic and electrical test and measuring equipment (report electronic component parts (attenuators, connectors, delay lines, filters, headsets, instrument transducers, microphones, etc.) and amplifiers, power supplies, and other electronic subassemblies on Form MA-36N, Selected Electronic and Associated Products).....		(X)	18.0
38252 98	Other test measuring and analyzing equipment for electronic and electrical circuits and equipment.....		(X)	145.1
38253 --	Other Electrical Measuring Instruments, Excluding Instrument Transformers: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	223.4
	As reported in Current Industrial Reports, series MA-38B.....		(X)	200.5
38253 08	Digital panel meters (DPM) between 0.05% and 1% +1-digit accu- racy (excluding precision DVM's and electronic counters).....	Million units.....	(NA)	3.7
	Panel types other than ruggedized or sealed (generally of 2 percent accuracy):			
38253 12	A.c. (including moving iron vane and dynamometer types)....	...do.....	(NA)	6.6
38253 13	D.c. (including rectifier and self-contained thermocouple types).....	...do.....	2,831.8	29.0
38253 11	Panel types ruggedized or sealed (generally of 2 percent accuracy).....	...do.....	(NA)	7.2
	Panel types with control or signal initiating means (including instrument relays):			
38253 16	Indicating.....	...do.....	145.8	4.9
38253 17	Nonindicating.....	...do.....		
38253 19	All other panel type instruments, including ammeters and voltmeters for motor vehicles.....	...do.....	(NA)	11.8
	Switchboard instruments which are generally of 1 percent accuracy:			
38253 23	A.c. (including moving iron vane and dynamometer types).....	...do.....	(NA)	10.1
38253 25	D.c. (including rectifier and thermocouple types).....	...do.....		
38253 27	Elapsed time meters (with and without reset).....	...do.....	(NA)	5.9
	Portable instruments which are generally capable of accuracies within plus or minus 2 percent full scale indication, and can be enclosed in a case so that they can be moved and used at various locations, and which are an end product:			
38253 29	Portable types (accuracy rating 0.11 percent thru 0.50 percent).....	...do.....	(NA)	5.1
38253 30	Portable types (accuracy rating 0.51 percent thru 2 percent).	...do.....		
38253 35	Laboratory portable instruments with accuracies within plus or minus 1 percent up to 1/10 percent of full scale and better (all case sizes).....	...do.....	(NA)	3.0
38253 37	Volt-ohm millimeter (VOM), accuracy 0.10 percent thru 5 percent.....	...do.....		
38253 45	Other electrical indicating instruments (except self-balancing types).....		(NA)	6.1
	Electrical recording instruments (portable and for panel mounting) (do not include potentiometer and bridge self-balancing types which are to be reported elsewhere on this form):			
38253 50	Direct deflecting (direct acting), except temperature calibrated instruments (exclude oscillographic types which are to be reported under 38253 63 and 38253 65).....	Million units.....	35.4	10.1
	Oscillographic recorders			
38253 63	Pen or stylus type.....	...do.....	11.1	27.2
38253 65	Light beam type.....	...do.....	4.5	16.0
38253 72	Other electrical recording instruments.....		(X)	40.8
	Parts and accessories for indicating and recording instruments:			
38253 74	Transducers for volts, amperes, watts, vars, frequency, temperature and power factor.....		(X)	5.9
38253 75	Tachometer generators, except aerospace types.....		(X)	1.4
38253 76	Other, including instrument shunts.....		(X)	5.6
38250 00	Instruments to measure electricity, n.e.c., for establishments with 10 employees or more. (See note.).....		(X)	49.9
38250 02	Instruments to measure electricity, n.e.c., for establishments with less than 10 employees. (See note.).....		(X)	17.9

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1967				
3825- --	ELECTRIC MEASURING INSTRUMENTS, TOTAL.....		(X)	1,137.7
38251 --	Integrating Instruments, Electrical: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	101.6
	As reported on Census Annual Form MA-38B.....		(X)	101.5
	A.c. watt-hour meters:			
	Single phase:			
38251 10	Detachable types.....	Million units.....	3,415.6	43.9
38251 12	Base types.....		(X)	( <sup>6</sup> )
38251 13	House types.....		(X)	( <sup>6</sup> )
38251 14	Switchboard types.....		(X)	( <sup>6</sup> )
38251 15	Polyphase.....	Million units.....	362.4	9.3
38251 33	Combined watt-hour and demand meters, single phase and polyphase, combined watt-hour and time switch meters.....	...do.....	395.4	15.0
38251 41	Demand meters (including kw. and kv.-a).....		(X)	( <sup>6</sup> )
38251 51	Other electrical integrating meters, including d.c. watt-hour meters, ampere-hour meters, and other miscellaneous integrating instruments.....		(X)	<sup>6</sup> 8.0
38251 61	Parts for integrating meters, electrical type (including meter mounting and test equipment), sold separately.....		(X)	25.4
38252 --	Test Equipment for Testing Electrical, Radio, and Communication Circuits and Motors: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	700.4
	As reported on Census Annual Form MA-38B.....		(X)	667.2
	Test, measuring, and analyzing equipment for electronic and electrical circuits and equipment:			
	Voltage, current, and resistance measuring equipment (except multimeters):			
	Electronic:			
38252 20	Digital.....		(X)	32.0
38252 21	Analog.....		(X)	21.9
38252 22	Electrical (service-type equipment) (excluding panel meters).....		(X)	4.3
38252 23	Multimeters:			
38252 24	Electronic.....		(X)	13.2
	Electrical.....		(X)	7.5
	Power and energy measuring equipment:			
	Electronic:			
38252 25	Analog.....		}	6.9
38252 26	Digital.....			
38252 27	Electrical power measuring equipment, excluding integrating instruments.....		(X)	1.4
	Frequency measuring equipment:			
	Frequency meters, electronic:			
38252 67	890 mc. and above.....	Million units.....	}	157.3
38252 68	Other.....	...do.....		
38252 69	Frequency meters, electrical and mechanical.....	...do.....		
	Waveform measuring and/or analyzing equipment:			
	Oscilloscopes and plug-in accessories:			
38252 12	Under 10 mc.....		}	104.0
38252 13	10 mc. and over.....			
38252 14	Oscillographs (low frequency).....		}	20.3
38252 16	Other waveform measuring and analyzing equipment.....			
	Signal generating equipment:			
38252 56	Audio.....		(X)	16.0
38252 58	RF (over 20 kc. to 889 mc.).....		(X)	18.0
38252 59	Microwave (890 mc. and above).....		(X)	21.5
	Field strength and intensity measuring equipment (including RFI measuring equipment):			
38252 91	Electronic.....		(X)	14.8
38252 92	Electrical.....		(X)	( <sup>7</sup> )
	Impedance and standing wave ratio measuring equipment (transfer function measuring equipment):			
38252 93	Electronic impedance and related measuring equipment.....		(X)	7.4
38252 94	Standing wave measuring equipment (slotted lines, sliding shorts, reflectometers, and other SWR equipment).....		(X)	2.3
38252 96	Time measuring and counting equipment, electronic (electronic chronoscopes and chronometers, range calibrators, time interval measuring equipment, etc.) (excluding mechanical types).....		}	3.1
	X-Y plotters:			
38252 97	Electronic.....		(X)	
38252 99	Other than electronic.....			

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1967				
3825- --	ELECTRIC MEASURING INSTRUMENTS—Continued			
38252 --	Test Equipment for Testing Electrical, Radio, and Communication Circuits and Motors—Continued			
	As reported on Census Annual Form MA-38B—Continued			
	Test, measuring, and analyzing equipment for electronic and electrical circuits and equipment—Continued			
	Multifunction test and measuring equipment:			
38252 44	Combination and/or group test sets.....		(X)	37.9
	Component part test sets:			
38252 45	Electron tube test equipment.....		(X)	6.1
38252 46	Semiconductor test equipment.....		(X)	9.1
38252 47	Other component part test sets and equipment.....		(X)	5.9
38252 48	Equipment and subassembly test equipment, n.e.c.....		(X)	57.2
	Standards and calibration equipment for test and measuring equipment, excluding laboratory types:			
38252 71	Electronic.....		(X)	14.6
38252 73	Electrical.....		(X)	8.3
38252 52	Microwave test equipment, n.e.c. (890 mc. and above).....		(X)	20.5
38252 39	Analyzers for testing characteristics of internal-combustion engines.....		(X)	31.0
38252 82	Associated devices for electronic and electrical test and measuring equipment, excluding component parts.....		(X)	17.6
38252 98	Other test, measuring and analyzing equipment for electronic and electrical circuits and equipment.....		(X)	796.0
38253 --	Other Electrical Measuring Instruments: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	279.2
	As reported on Census Annual Form MA-38B.....		(X)	252.5
	Electrical indicating instruments wherein a pointer is made to move over a calibrated scale, such movement effected by action of the electrical current and/or voltage:			
	Panel type instruments, including aircraft types, excluding instruments for use on motor vehicles which are capable of accuracies with plus or minus 2 percent of full scale indication, including plus or minus 3 percent miniaturized instruments and rectifier instruments, and enclosable in a case suitable for mounting on a panel:			
	Panel types, other than ruggedized or sealed (generally of 2 percent accuracy, not exceeding 4.5-inch flange diameter):			
38253 12	A.c. (including moving iron vane and dynamometer types)..	Million units.....	355.7	4.1
38253 13	D.c. (including rectifier and self-contained thermocouple types).....	...do.....	3,891.8	26.9
	Panel types, ruggedized or sealed (generally of 2 percent accuracy, not exceeding 4.5-inch flange diameter):			
38253 14	A.c. (including moving iron vane and dynamometer types).	...do.....	213.7	1.7
38253 15	D.c. (including rectifier and self-contained thermocouple types).....	...do.....	1,084.1	9.8
	Panel types, with control of signal indicating means (including instrument relays):			
38253 16	Indicating.....	...do.....	314.2	6.8
38253 17	Nonindicating.....	...do.....	123.9	6.2
38253 18	All other panel type instruments.....	...do.....		
	Switchboard instruments, generally of accuracies with plus or minus 1 percent of full scale indication, enclosable in a case suitable for mounting on a panel, and which are an end product, are magnetically shielded, and are 4 inches or larger in size:			
38253 23	A.c. (including moving iron vane and dynamometer types)....	...do.....	141.2	10.5
38253 25	D.c. (including rectifier and thermocouple types).....	...do.....		
	Portable instruments, generally capable of accuracies within plus or minus 2 percent of full scale indication, enclosable in a case so that they can be moved and used at various locations, and which are an end product:			
	Portable types (accuracy rating 0.11 percent to 0.50 percent):			
38253 32	A.c. (current and voltage, including moving iron vane and dynamometer).....	...do.....	13.5	2.3
38253 33	D.c. (current and voltage).....	...do.....	28.4	2.1
38253 34	All other, including watt, var. P.F., phase angle, etc....	...do.....		
	Portable types (accuracy rating 0.51 percent to 2 percent):			
38253 36	A.c. (current and voltage, including moving iron vane and dynamometer).....	...do.....	18.7	4.5
38253 37	D.c. (current and voltage).....	...do.....		
38253 38	All other, including watt, var., P.F., phase angle, etc....	...do.....		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1967				
3825- --	ELECTRIC MEASURING INSTRUMENTS--Continued			
38253 --	Other Electrical Measuring Instruments--Continued			
	As reported on Census Annual Form MA-38B--Continued			
	Portable instruments, generally capable of accuracies within plus or minus 2 percent of full scale indication, enclosable in a case so that they can be moved and used at various locations, and which are an end product--Continued			
38253 35	Laboratory portable instruments, with accuracies within plus or minus 1 percent up to 1/10 percent of full scale or better, all case sizes.....	Million units.....	10.0	0.9
38253 45	Other electrical indicating instruments except self- balancing types, motor vehicle ammeters and voltmeters....	...do.....	(NA)	9.6
	Electrical recording instruments (portable and for panel mounting), excluding potentiometer and bridge self- balancing types:			
	Direct deflecting (direct acting), except temperature calibrated instruments (excluding oscillographic types):			
38253 60	A.C.....	...do.....	13.2	4.5
38253 61	D.C.....	...do.....		
38253 62	Other.....	...do.....		
	Oscillographic:		23.7	9.7
38253 69	Galvanometer type.....	...do.....	46.3	88.7
38253 70	Oscilloscope type.....	...do.....		
38253 72	Other electrical recording instruments.....			
38253 71	Parts for indicating and recording instruments.....		(X)	21.8
38253 85	Ammeters and voltmeters for motor vehicles.....	Million units.....	2,425.8	2.7
38250 00	Electrical measuring instruments n.s.k., represents principally establishments with 10 employees or more. (See note.).....		(X)	50.3
38250 02	Electrical measuring instruments n.s.k., represents principally establishments with less than 10 employees. (See note.).....		(X)	6.2
1972				
3829- --	MEASURING AND CONTROLLING DEVICES, N.E.C., TOTAL.....		(X)	585.9
38291 --	Aircraft Engine Instruments, Except Flight: <sup>1 8</sup>			
	As reported in census of manufactures.....		(X)	74.5
	As reported in Current Industrial Reports, series MA-38B.....		(X)	70.8
38291 45	Temperature sensors, transmitters and displays.....		(X)	16.8
38291 46	Pressure ratio sensors, displays and controls.....		(X)	4.9
38291 47	Pressure and vacuum sensors, transmitters and displays.....		(X)	5.6
38291 58	Fuel and oil flow rate sensors, transmitters and displays, including mixture controls.....		(X)	6.4
38291 60	Fuel and oil quantity sensors, transmitters and displays including densitometers.....		(X)	14.7
38291 62	Tachometer generators and indicators.....			
38291 98	All other.....			
38292 --	Physical Properties Testing and Inspection Equipment: <sup>1 8</sup>			
	As reported in census of manufactures.....		(X)	106.3
	As reported in Current Industrial Reports series MA-38B.....		(X)	96.7
	Stress, strain, and flaw detecting and measuring equipment:			
38292 30	Electronic types.....		(X)	22.3
38292 31	Other types.....		(X)	13.5
	Other physical properties testing and inspection equipment:			
38292 54	Electronic types.....		(X)	13.1
38292 55	Other types.....		(X)	21.6
	Kinematic test and measuring equipment:			
38292 92	Vibration.....		(X)	16.1
38292 93	Acceleration and all other kinematic test and measuring equipment.....		(X)	10.1
38293 --	Commercial, Meteorological and General Purpose Instruments: <sup>1 8</sup>			
	As reported in census of manufactures.....		(X)	94.5
	As reported in Current Industrial Reports series MA-38B.....		(X)	87.9
38293 20	Barometers and barographs, aneroid and mercurial types, including recorders, wall, pendant, meteorological, hygrothermo graphs, barometer-thermometer- humidity combinations.....		(X)	8.8
38293 21	Hydrometers, glass, all types, including thermo-hydrometers....			

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1972				
3829- --	MEASURING AND CONTROLLING DEVICES, N.E.C.--Continued			
38293 --	Commerical, Meteorological and General Purpose Inatruments--Con. As reported in Current Industrial Reports, seriea MA-38B--Con.			
	Liquid-in-glass thermometers:			
38293 22	Engraved (etched) stem, thermoregulators, deep-sea reversing, laboratory, encased glass, ASTM standarda, pocket case, max-min registering, except clinical thermometers.....		(X)	5.3
38293 23	Threaded and flanged types, fixed and adjustable angle, in-line and duct installations, for process, food, air- conditioning and refrigeration installations.....		(X)	3.1
38293 24	Household and commercial thermometers, wall, outdoor, domestic science, cupcase, filled systems, indoor-outdoor...		(X)	8.5
38293 34	Clinical (fever) thermometers.....	1,000 units.....	25.3	14.7
	Bi-metal thermometers:			
38293 25	Threaded and flanged types, for pipeline and duct installations, including general and pocket test.....		(X)	8.5
38293 26	Domestic science, commercial general test, indoor, outdoor, desk models, oven, refrigerator.....		(X)	6.7
38293 27	Infrared thermometers, portable.....		(X)	-
38293 28	Humidity indicating and recording instruments, bi-hygroscopic and hygroscopic element, indicators, psychrometers, wet and dry bulb, hygrographs, indicating hygrometers (exclude procesa type and humidistats).....		(X)	1.0
38293 29	Other commercial and meteorological instruments (except aircraft) including compasses, altimeters, wind speed and direction, rain gauges, and thermographs.....		(X)	31.3
38294 --	Nuclear Radiation, Detection and Monitoring Instruments: <sup>1 8</sup> As reported in census of manufactures..... As reported in Current Industrial Reports series MA-38B.....		(X) (X)	198.2 187.6
38294 02	Radiation detecting elements (including ion chambers) sold separately (not included in instruments or systems listed elsewhere in this report).....	1,000 units.....	9.7	12.0
38294 04	Solid state detectors sold separately.....			
38294 06	Nuclear monitoring instruments (include enviromental, personal dosimetry and medical monitors, both stationary and portable type).....		(X)	13.7
38294 07	Medical and biological counting systems for In Vivo counting...		(X)	39.1
38294 09	Sample and flow counting systems, manual and automatic.....		(X)	16.6
38294 19	Scalers sold separately.....		(X)	2.0
38294 21	Special amplifiers for nuclear applications sold separately....		(X)	2.2
	Pulse analyzers (including nuclear spectrometers)			
38294 22	Single channel pulse height analyzers, sold separately.....	1,000 units.....	2.5	2.6
38294 23	Multi-channel pulse height analyzers, sold separately.....	...do.....	3.3	9.6
38294 25	Count rate meters sold separately.....	...do.....	2.6	1.8
38294 29	Measurement and control devices using Beta, Gamma, or neutron gauge technology.....			
38294 28	Input-output accessories for multi-channel analyzers sold separately.....		(X)	38.5
38294 30	Nuclear power supplies sold separately.....			
38294 32	Neutron and photon activation analysis systems.....		(X)	49.5
38294 34	Nuclear instrument modules, n.e.c.....			
38294 39	Other nuclear radiation detection and monitoring instruments...			
38290 00	Measuring and controlling devices, n.e.c., n.s.k., for estab- lishments with 10 employees or more. (See note.).....		(X)	89.0
38290 02	Measuring and controlling devices n.e.c., n.s.k., for estab- lishments with less than 10 employees. (See note.).....		(X)	23.4
1967				
3829- --	MEASURING AND CONTROLLING DEVICES, N.E.C., TOTAL.....		(X)	(NA)
38291 --	Aircraft Engine Instruments, Except Flight: <sup>1</sup> As reported in census of manufactures..... As reported in Current Industrial Reports, series MA-38B.....		(X) (X)	120.0 95.5
38291 45	Temperature indicators.....		(X)	9.5
38291 46	Pressure ratio indicators.....		(X)	7.9
38291 47	Pressure and vacuum indicators.....		(X)	9.5
38291 48	Flow indicators.....		(X)	21.2
38291 49	Liquid level indicators.....		(X)	24.4
38291 50	Tachometers.....		(X)	10.0

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers	
			Quantity	Value
			(million dollars)	
1967				
3829- --	MEASURING AND CONTROLLING DEVICES, N.E.C.--Continued			
38291 --	Aircraft Engine Instruments, Except Flight--Continued			
	As reported in Current Industrial Reports, series MA-38B--Con.			
38291 51	Thrust power indicators.....		(X)	13.1
38291 52	Fuel mixture indicators.....			
38291 53	Fuel totalizers.....			
38291 54	Fuel densitometers.....			
38291 55	Engine synchronizers.....			
38291 56	All other.....			
38292 --	Physical Properties and Kinematic Testing and Inspection Equipment: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	(NA)
	As reported in Current Industrial Reports, series MA-38B.....		(X)	89.2
	Physical properties testing and inspection equipment, including harness, strength of materials, thickness, wear, abrasion, and similar testers (excluding X-ray and nuclear):			
	Stress, strain, and flaw detecting and measuring equipment:			
38292 30	Electronic types.....		(X)	24.2
38292 31	Other types.....		(X)	7.4
	Other physical properties testing and inspection equipment:			
38292 54	Electronic types.....		(X)	19.0
38292 55	Other types.....		(X)	10.0
	Kinematic test and measuring equipment:			
38292 92	Vibration.....		(X)	21.4
38292 93	Acceleration and all other kinematic test and measuring equipment.....		(X)	7.2
38293 --	Commercial, Meteorological, and General Purpose Instruments: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	(NA)
	As reported in Current Reports, series MA-38B.....		(X)	36.8
	Mechanical measuring types:			
	Liquid in glass thermometers:			
38293 04	Process types.....	1,000 units.....	887.3	5.5
38293 05	Laboratory types.....	..do.....	1,206.3	3.4
	Bimetallic:			
38293 06	Over 2-1/2" dial.....	..do.....	664.5	4.1
38293 07	2-1/2" dial and smaller.....	..do.....	138.3	.5
	Household type instruments:			
38293 33	Thermometers.....	..do.....	27,872.0	12.8
38293 32	Barometers (all types).....	..do.....	286.4	2.3
38293 34	Clinical thermometers.....	..do.....	1,872.8	8.2
38294 --	Nuclear Radiation Detection and Monitoring Instruments: <sup>1</sup>			
	As reported in census of manufactures.....		(X)	(NA)
	As reported in Current Industrial Reports, series Form MA-38B....		(X)	75.3
	Nuclear radiation detection and monitoring instruments:			
38294 11	Radiation detecting elements, including ion chambers, sold separately.....	1,000 units.....	10.5	3.4
	Nuclear monitoring instruments:			
	Portable (or handheld):			
38294 12	50 MR/HR maximum range.....	..do.....	(NA)	1.5
38294 13	50.1 MR/HR but less than 10 R/HR.....	..do.....		
38294 14	10 R/HR through 500 R/HR.....	..do.....		
38294 15	Environmental (fixed or aemiportable or mobile systems for area monitoring, not handheld or worn on person).....	..do.....	(NA)	.9
38294 16	Personal dosimetry devices, self-reading and others (worn on the person).....	..do.....	(NA)	1.3
	Medical monitors:			
38294 17	Whole body counters.....		(X)	( <sup>9</sup> )
38294 18	Medical scanners and special purpose monitors.....	1,000 units.....	(X)	2.5
38294 19	Scalers.....	..do.....		
38294 21	Special amplifiers for nuclear applications.....			
	Pulse analyzers, including nuclear spectrometers:			
38294 22	Single channel pulse height analyzers.....	1,000 units.....	1.6	2.9
38294 23	Multichannel pulse height analyzers.....	..do.....	.7	5.7
38294 24	Sample changers.....		(X)	( <sup>9</sup> )
38294 25	Count rate meters.....	1,000 units.....	1.9	1.1
38294 26	Nuclear instruments for industrial purposes.....	..do.....	2.3	15.2
38294 27	Miscellaneous, n.e.c.....		(X)	<sup>9</sup> 40.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	1972 value (million dollars)	1967 product code	Product	1967 value (million dollars)
3832- --	OPTICAL INSTRUMENTS AND LENSES, TOTAL.....	584.7	3832- --	OPTICAL INSTRUMENTS AND LENSES, TOTAL.....	559.1
38321 --	Analytical, optical and scientific instruments Except Sighting and Fire Control Equipment: <sup>1</sup>		38321 --	Optical instruments and lenses, except sighting and fire control equipment: <sup>1</sup>	
	As reported in census of manufactures.....	444.4		As reported in census of manufactures.....	353.8
	As reported in Current Industrial Reports, series MA-38B.....	416.1		As reported on Census Annual Form MA-38B.....	339.9
	Analytical instruments:				
	Electrochemical instruments:				
38321 01	pH electrodes and meters.....	6.8	38321 31	Optical:	
38321 03	Ion selective electrodes and meters.....			Field glasses, prismatic and nonprismatic, terrestrial and celestial telescopes.....	(11)
38321 04	Electrophoresis chambers and supplies.....	11.4	38321 51*	Microprojectors and photomicrographic equipment.....	(11)
38321 05	Other, except process type (Include polarographic, redox, titrators, etc.).....	2.0			
	Chromatographic instruments:				
38321 07	Gas.....	53.6			
38321 08	Other, including liquid, paper, gel.....				
38321 10	Spectrographs.....	8.1	38321 21	Microscopes:	
	Spectrophotometric instruments:		38321 22*	Electron and proton.....	32.1
38321 12	Atomic absorption and flame emission.....	28.4	38321 22*	Optical.....	
38321 13	Infrared.....				
38321 14	Ultraviolet/visible.....	24.5	38321 74*	Optical and related types of spectrometers.....	76.4
38321 15	Fluorescence instruments.....	4.1			
38321 16	Densitometers, reflection, and glass meters....	4.9		All other optical instruments:	
38321 17	Other, including near UV/visible and colorimeters.....	10.7	38321 76*	Electrophoresis equipment.....	(11)
			38321 80*	All other optical instruments including refractometers, meteorology instruments, and other optical instruments used for laboratory and measuring purposes.....	1127.2
38321 19	Thermal analysis instruments: TGA, DTA, QTA, etc.	17.7			
38321 20	Nuclear magnetic resonance instruments.....				
38321 21	Microscopes, electron and proton.....	6.5			
38321 23	Mass spectroscopy instrumentation.....				
	Automatic chemical analyzers:				
38321 25	Multi-purpose.....	16.7	38321 23	Laboratory analysis apparatus (nonoptical):	
38321 27	Special purpose.....			Mass spectrographs.....	5.4
38321 28	Other analytical instruments including CHNOS, particle analyzers, osmometers, amino acid, and protein analyzers.....	21.0			
	Optical instruments:		38321 20	Nuclear magnetic resonance type apparatus.....	59.7
38321 31	Binoculars, prismatic and nonprismatic.....	5.6	38321 75*	Electron paramagnetic spin type apparatus.....	
38321 33	Optical alignment and display instruments and systems, except photographic.....		38321 07, 08	Chromatographic equipment (excluding continuous (on stream) gas and chemical analysis types)....	
38321 35	Optical test equipment including standard sources, modulators, optical comparators, reflectors, optical microscopes, interferometers	38.8	38321 79*	All other nonoptical analytical instruments and equipment (photometers, colorimeters, turbidometers, nephelometers, titrometers, pH meters, etc.).....	
38321 37	Optical components, including lenses (except ophthalmic and photographic), mirror, filters, gratings, coatings, movements, reflectors, reticles, prisms, monochrometers, light amplifiers, Kerr cells, etc. <sup>10</sup> .....	53.4	38321 98*	Lenses, components, and parts.....	39.1
38321 39	Other optical instruments, excluding analytical instruments listed above and sighting and fire control equipment.....	102.0	38322 --	Sighting and Fire Control Equipment Made From Lenses, Prisms, Etc., Produced at Same Establishment: <sup>1</sup>	
				As reported in census of manufactures.....	69.5
38322 --	Sighting and Fire Control Equipment Made From Lenses, Prisms, Etc., Produced at the Same Establishment: <sup>1</sup>			As reported on Census Annual Form MA-38B (product code 38322 62).....	66.7
	As reported in census of manufactures.....	51.1	38323 --	Sighting and fire control equipment: <sup>1</sup>	
	As reported in Current Industrial Reports, series MA-38B (product code 38322 62).....	47.6		As reported in census of manufactures.....	107.2
38323 --	Sighting and Fire Control Equipment Made From Purchased Lenses: <sup>1</sup>			As reported on Census Annual Form MA-38B (product code 38323 62).....	106.8
	As reported in census of Manufactures.....	32.0	38320 00	Optical instruments and lenses, n.s.k., represents establishments with 10 employees or more in 1967. (See note.).....	23.7
	As reported in Current Industrial Reports, series MA-38B (product code 38323 62).....	30.9	38320 02	Optical instruments and lenses, n.s.k., represents establishments with less than 10 employees in 1967. (See note.).....	4.8
38320 00	Optical instruments and lenses, n.s.k., for establishments with 10 employees or more. (See note.)...	40.6			
38320 02	Optical instruments and lenses, n.s.k., for establishments with less than 10 employees. (See note.)...	16.6			

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. \*Not directly comparable to 1972 products.

Footnotes continued on next page.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A--Continued)

<sup>1</sup>The data for 1972 and 1967 present totals as collected in the census of manufactures as well as comparable totals from Current Industrial Reports series. The product detail as shown are those collected on the CIR form specified.

<sup>2</sup>Data on only selected items in this product class are collected in the current industrial report while the census of manufactures collects data on the aggregate of all the products.

<sup>3</sup>The major difference between these two figures concerns the method of reporting parts and components for aircraft, flight, nautical and navigational instruments, and automatic pilots. Whereas many respondents included such items under the broad heading in the census, parts were not covered in the MA-38B survey in 1967.

<sup>4</sup>Included with 38111 20 to avoid disclosing figures for individual companies.

<sup>5</sup>Included with 38111 98 to avoid disclosing figures for individual companies.

<sup>6</sup>For 1967, product codes 38251 12, 13, 14, and 41 are combined with 38251 51 to avoid disclosing figures for individual companies.

<sup>7</sup>For 1967, product code 38252 92 is combined with code 38252 98. The value for product code 38252 92 is less than 100 thousand.

<sup>8</sup>The product class structure for this industry was revised effective in 1972.

<sup>9</sup>Product codes 38294 17, 19, and 24 were combined with product code 38294 27 for 1967.

<sup>10</sup>The related census total probably includes photographic lenses.

<sup>11</sup>Included with product code 38321 80 to avoid disclosing figures for individual companies.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
AERONAUTICAL, NAUTICAL, AND NAVIGATIONAL INSTRUMENTS (38111)			LABORATORY AND SCIENTIFIC INSTRUMENTS (38112)-- Continued		
United States.....	573.7	585.5	South Region.....	41.5	46.0
Northeast Region.....	203.9	205.7	South Atlantic Division.....	20.8	27.0
New England Division.....	56.4	50.5	Delaware.....	AA	BB
Maine.....	AA	( <sup>1</sup> )	Maryland.....	12.7	18.2
New Hampshire.....	AA	( <sup>1</sup> )	West Virginia.....	AA	CC
Massachusetts.....	31.7	33.3	Georgia.....	AA	( <sup>1</sup> )
Connecticut.....	19.8	EE	Florida.....	2.4	3.2
Middle Atlantic Division.....	147.5	155.1	East South Central Division.....	CC	AA
New York.....	61.2	28.1	Tennessee.....	CC	AA
New Jersey.....	61.1	103.9	Alabama.....	BB	( <sup>1</sup> )
Pennsylvania.....	25.2	23.2	West South Central Division.....	EE	EE
North Central Region.....	178.7	174.8	Arkansas.....	BB	( <sup>1</sup> )
East North Central Division.....	101.6	121.9	Texas.....	12.4	12.4
Indiana.....	BB	CC	West Region.....	77.0	43.8
Illinois.....	23.6	37.5	Mountain Division.....	2.8	6.0
Michigan.....	44.8	GG	Colorado.....	BB	2.8
Wisconsin.....	FF	BB	Pacific Division.....	74.2	37.8
West North Central Division.....	77.1	52.9	Oregon.....	CC	BB
Minnesota.....	FF	EE	California.....	EE	FF
Iowa.....	CC	EE			
Kansas.....	FF	BB			
South Region.....	27.2	39.0	SURVEYING, DRAFTING INSTRUMENTS, AND LAB FURNITURE (38113)		
South Atlantic Division.....	20.8	20.2	UNITED STATES.....	126.2	139.4
Florida.....	19.1	6.9	Northeast Region.....	36.5	43.6
West South Central Division.....	6.4	CC	New England Division.....	11.2	5.9
Texas.....	6.4	17.8	Maine.....	BB	BB
West Region.....	163.9	166.0	Massachusetts.....	CC	2.1
Mountain Division.....	GG	GG	Connecticut.....	BB	AA
Colorado.....	CC	( <sup>1</sup> )	Middle Atlantic Division.....	25.3	37.8
Arizona.....	GG	GG	New York.....	10.6	18.0
Pacific Division.....	GG	GG	New Jersey.....	CC	17.8
Washington.....	AA	1.2	Pennsylvania.....	CC	2.0
California.....	86.4	GG			
LABORATORY AND SCIENTIFIC INSTRUMENTS (38112)			North Central Region.....	54.3	43.8
United States.....	335.9	259.7	East North Central Division.....	54.0	43.7
Northeast Region.....	121.2	95.8	Illinois.....	BB	3.8
New England Division.....	46.7	39.2	Michigan.....	20.6	21.1
Massachusetts.....	29.2	22.0	Wisconsin.....	FF	EE
Rhode Island.....	AA	BB	Ohio.....	CC	(NA)
Connecticut.....	15.5	10.9	South Region.....	26.2	40.1
Middle Atlantic Division.....	74.5	56.8	South Atlantic Division.....	17.6	27.8
New York.....	13.6	11.0	Virginia.....	AA	BB
New Jersey.....	29.9	16.8	West Virginia.....	BB	( <sup>1</sup> )
Pennsylvania.....	31.0	28.8	North Carolina.....	EE	FF
North Central Region.....	96.2	74.2	East South Central Division.....	AA	CC
East North Central Division.....	80.9	63.0	Tennessee.....	AA	( <sup>1</sup> )
Ohio.....	13.1	13.7	West South Central Division.....	CC	BB
Indiana.....	10.7	AA	Louisiana.....	AA	( <sup>1</sup> )
Illinois.....	40.5	36.3	Texas.....	5.2	BB
Michigan.....	11.4	12.0	West Region.....	9.4	11.8
Wisconsin.....	5.3	( <sup>1</sup> )	Mountain Division.....	AA	CC
West North Central Division.....	15.3	11.2	Colorado.....	AA	CC
Minnesota.....	4.1	CC	Pacific Division.....	CC	CC
Iowa.....	CC	AA	California.....	7.5	CC
Missouri.....	AA	BB			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PROCESS CONTROL INSTRUMENTS (38230)			COUNTING DEVICES (38243) <sup>2</sup>		
United States.....	794.7	(NA)	United States.....	48.8	(NA)
Northeast Region.....	409.5	(NA)	Northeast Region.....	10.0	(NA)
New England Division.....	149.8	(NA)	New England Division.....	CC	(NA)
New Hampshire.....	BB	(NA)	Connecticut.....	CC	(NA)
Vermont.....	BB	(NA)	Middle Atlantic Division.....	BB	(NA)
Massachusetts.....	105.3	(NA)	New Jersey.....	2.4	(NA)
Rhode Island.....	BB	(NA)	North Central Region.....	19.4	(NA)
Connecticut.....	34.2	(NA)	East North Central Division.....	EE	(NA)
Mid Atlantic Division.....	259.7	(NA)	Illinois.....	CC	(NA)
New York.....	56.7	(NA)	Michigan.....	BB	(NA)
New Jersey.....	19.8	(NA)	Wisconsin.....	CC	(NA)
Pennsylvania.....	183.2	(NA)	West North Central Division.....	AA	(NA)
North Central Region.....	208.9	(NA)	Iowa.....	AA	(NA)
East North Central Division.....	157.9	(NA)	South Region.....	EE	(NA)
Ohio.....	59.0	(NA)	South Atlantic Division.....	CC	(NA)
Indiana.....	CC	(NA)	North Carolina.....	CC	(NA)
Illinois.....	64.8	(NA)	West South Central Division.....	CC	(NA)
Michigan.....	FF	(NA)	Texas.....	CC	(NA)
Wisconsin.....	4.2	(NA)	West Region.....	BB	(NA)
West North Central Division.....	51.0	(NA)	Pacific Division.....	BB	(NA)
Minnesota.....	EE	(NA)	California.....	BB	(NA)
Iowa.....	FF	(NA)			
South Region.....	47.1	(NA)			
South Atlantic Division.....	16.9	(NA)			
Delaware.....	BB	(NA)			
Maryland.....	AA	(NA)			
Virginia.....	BB	(NA)			
West Virginia.....	BB	(NA)			
North Carolina.....	AA	(NA)			
Georgia.....	BB	(NA)			
Florida.....	BB	(NA)			
East South Central Division.....	EE	(NA)			
Kentucky.....	CC	(NA)			
Tennessee.....	BB	(NA)			
West South Central Division.....	EE	(NA)			
Oklahoma.....	AA	(NA)			
Texas.....	EE	(NA)			
West Region.....	129.1	(NA)			
Mountain Division.....	EE	(NA)			
Colorado.....	BB	(NA)			
Arizona.....	CC	(NA)			
Nevada.....	BB	(NA)			
Pacific Division.....	GG	(NA)			
California.....	GG	(NA)			
INTEGRATING METERS, NONELECTRICAL TYPE (38242)			MOTOR VEHICLE INSTRUMENTS, EXCEPT ELECTRIC (38244)		
United States.....	207.7	189.2	United States.....	70.1	71.4
Northeast Region.....	115.4	122.0	Northeast Region.....	6.2	3.2
New England Division.....	FF	26.1	Middle Atlantic Division.....	CC	3.2
Massachusetts.....	EE	EE	New York.....	AA	AA
Connecticut.....	EE	CC	New Jersey.....	BB	AA
Middle Atlantic Division.....	88.1	95.9	North Central Region.....	GG	63.2
New York.....	EE	FF	East North Central Division.....	GG	63.2
Pennsylvania.....	76.0	56.1	Illinois.....	EE	EE
New Jersey.....	AA	(NA)	Michigan.....	FF	GG
North Central Region.....	FF	37.2	West North Central Division.....	AA	( <sup>1</sup> )
East North Central Division.....	FF	FF	Minnesota.....	AA	( <sup>1</sup> )
Wisconsin.....	FF	EE	West Region.....	CC	BB
West North Central Division.....	EE	EE	Mountain Division.....	BB	AA
Nebraska.....	EE	EE	Colorado.....	BB	AA
South Region.....	37.7	16.9			
South Atlantic Division.....	EE	CC			
South Carolina.....	CC	( <sup>1</sup> )			
Georgia.....	CC	CC			
East South Central Division.....	CC	AA			
Kentucky.....	CC	( <sup>1</sup> )			
West South Central Division.....	15.6	CC			
Arkansas.....	EE	BB			
Texas.....	AA	BB			
West Region.....	CC	13.1			
Pacific Division.....	CC	13.1			
California.....	CC	13.1			
			INTEGRATING INSTRUMENTS, ELECTRICAL (38251)		
			United States.....	169.5	101.6
			Northeast Region.....	47.1	39.8
			New England Division.....	FF	FF
			New Hampshire.....	FF	FF
			Connecticut.....	AA	( <sup>1</sup> )
			Middle Atlantic Division.....	AA	EE
			New Jersey.....	AA	CC
			Pennsylvania.....	AA	1.4
			North Central Division.....	53.4	31.1
			East North Central Division.....	53.2	FF
			Ohio.....	BB	BB
			Indiana.....	EE	( <sup>1</sup> )
			Illinois.....	FF	FF
			Michigan.....	CC	AA
			South Region.....	53.4	FF
			South Atlantic Division.....	46.5	FF
			Virginia.....	AA	( <sup>1</sup> )
			North Carolina.....	FF	EE
			South Carolina.....	EE	CC
			Florida.....	AA	( <sup>1</sup> )
			West South Central Division.....	6.9	AA
			Texas.....	CC	AA
			West Region.....	15.5	FF
			Pacific Division.....	EE	FF
			California.....	EE	CC

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
TEST EQUIPMENT FOR ELECTRICAL, RADIO, AND COMMUNICATION METERS (38252)			AIRCRAFT ENGINE INSTRUMENTS, EXCEPT ELECTRIC (38291)		
United States.....	869.0	700.4	United States.....	74.5	120.0
Northeast Region.....	253.1	178.3	Northeast Region.....	49.3	82.8
New England Division.....	59.8	48.7	New England Division.....	35.0	51.2
New Hampshire.....	EE	BB	Vermont.....	EE	CC
Massachusetts.....	38.2	FF	Massachusetts.....	FF	FF
Connecticut.....	CC	22.8	Connecticut.....	BB	EE
Middle Atlantic Division.....	193.3	129.6	Middle Atlantic Division.....	14.3	31.6
New York.....	103.4	48.9	New York.....	CC	EE
New Jersey.....	73.2	68.3	New Jersey.....	4.0	4.3
Pennsylvania.....	16.7	12.4	Pennsylvania.....	BB	EE
North Central Region.....	154.2	134.9	North Central Region.....	EE	24.2
East North Central Division.....	124.8	92.8	West North Central Division.....	EE	FF
Ohio.....	22.3	16.6	Minnesota.....	EE	EE
Indiana.....	BB	5.8			
Illinois.....	73.1	55.3	South Region.....	CC	4.5
Michigan.....	20.5	10.4	West South Central Division.....	4.0	BB
Wisconsin.....	BB	4.8	Texas.....	4.0	BB
West North Central Division.....	29.5	42.1			
Minnesota.....	AA	AA	West Region.....	7.2	8.6
Iowa.....	CC	CC	Mountain Division.....	BB	BB
Missouri.....	15.0	FF	New Mexico.....	AA	( <sup>1</sup> )
South Dakota.....	BB	( <sup>1</sup> )	Arizona.....	AA	AA
South Region.....	30.5	31.5	Pacific Division.....	BB	CC
South Atlantic Division.....	12.4	16.5	California.....	BB	CC
Maryland.....	BB	AA			
Virginia.....	AA	( <sup>1</sup> )	PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIPMENT (38292) <sup>2</sup>		
Georgia.....	BB	BB	United States.....	106.3	(NA)
Florida.....	2.6	10.9	Northeast Region.....	50.3	(NA)
East South Central Division.....	BB	7.4	New England Division.....	21.8	(NA)
Mississippi.....	BB	CC	Massachusetts.....	EE	(NA)
West South Central Division.....	EE	7.6	Connecticut.....	BB	(NA)
Oklahoma.....	1.5	( <sup>1</sup> )	Middle Atlantic Division.....	28.5	(NA)
Texas.....	12.1	CC	New York.....	7.3	(NA)
West Region.....	431.2	355.7	New Jersey.....	3.8	(NA)
Mountain Division.....	GG	GG	Pennsylvania.....	17.4	(NA)
Colorado.....	GG	GG			
Pacific Division.....	GG	GG	North Central Region.....	41.2	(NA)
Washington.....	EE	CC	East North Central Division.....	FF	(NA)
Oregon.....	GG	GG	Ohio.....	BB	(NA)
California.....	246.3	185.7	Indiana.....	AA	(NA)
			Illinois.....	10.2	(NA)
OTHER ELECTRICAL MEASURING INSTRUMENTS (38253) <sup>3</sup>			Michigan.....	9.4	(NA)
United States.....	223.4	306.7	West North Central Division.....	CC	(NA)
Northeast Region.....	91.8	160.8	Minnesota.....	CC	(NA)
New England Division.....	50.2	72.1			
New Hampshire.....	16.6	26.4	South Region.....	3.2	(NA)
Massachusetts.....	17.2	40.0	South Atlantic Division.....	AA	(NA)
Rhode Island.....	AA	(NA)	Maryland.....	AA	(NA)
Connecticut.....	EE	8.7	South Carolina.....	AA	(NA)
Middle Atlantic Division.....	41.5	88.7	West South Central Division.....	AA	(NA)
New York.....	5.7	20.5	Texas.....	AA	(NA)
New Jersey.....	21.7	25.9			
Pennsylvania.....	14.1	42.3	West Region.....	11.6	(NA)
North Central Region.....	57.9	84.3	Pacific Division.....	EE	(NA)
East North Central Division.....	56.1	83.8	California.....	EE	(NA)
Ohio.....	20.9	25.4			
Indiana.....	BB	EE	COMMERCIAL, METEOROLOGICAL, GENERAL-PURPOSE INSTRUMENTS (38293) <sup>2</sup>		
Illinois.....	21.8	25.5	United States.....	94.5	(NA)
Michigan.....	5.6	11.7	Northeast Region.....	56.4	(NA)
Wisconsin.....	CC	CC	New England Division.....	6.1	(NA)
West North Central Division.....	1.7	(NA)	Massachusetts.....	BB	(NA)
South Region.....	11.0	9.3	Connecticut.....	BB	(NA)
South Atlantic Division.....	BB	AA	Middle Atlantic Division.....	50.3	(NA)
Florida.....	AA	(NA)	New York.....	CC	(NA)
East South Central Division.....	AA	(NA)	New Jersey.....	11.7	(NA)
Tennessee.....	AA	(NA)	Pennsylvania.....	FF	(NA)
West South Central Division.....	7.3	7.5			
Oklahoma.....	1.9	(NA)	North Central Region.....	15.2	(NA)
Texas.....	5.4	7.5	East North Central Division.....	FF	(NA)
West Region.....	62.8	52.3	Ohio.....	BB	(NA)
Mountain Division.....	EE	CC	Illinois.....	EE	(NA)
Colorado.....	EE	CC			
Pacific Division.....	FF	FF			
Washington.....	BB	(NA)			
California.....	42.3	39.8			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COMMERCIAL, METEOROLOGICAL, GENERAL-PURPOSE INSTRUMENTS (38293)--Continued			OPTICAL INSTRUMENTS AND LENSES, NOT SIGHT OR FIRE EQUIPMENT (38321)--Continued		
South Region.....	18.6	(NA)	West North Central Division.....	6.1	( <sup>1</sup> )
South Atlantic Division.....	EE	(NA)	Minnesota.....	BB	( <sup>1</sup> )
North Carolina.....	EE	(NA)	Missouri.....	AA	( <sup>1</sup> )
South Carolina.....	BB	(NA)	Nebraska.....	BB	( <sup>1</sup> )
East South Central Division.....	AA	(NA)			
Tennessee.....	AA	(NA)	South Region.....	21.9	5.2
			South Atlantic Division.....	14.5	AA
West Region.....	4.2	(NA)	Delaware.....	CC	( <sup>1</sup> )
Pacific Division.....	3.5	(NA)	Maryland.....	AA	( <sup>1</sup> )
California.....	3.5	(NA)	Virginia.....	CC	( <sup>1</sup> )
			East South Central Division.....	BB	( <sup>1</sup> )
NUCLEAR RADIATION, DETECTION, AND MONITORING INSTRUMENTS (38294) <sup>2</sup>			Tennessee.....	AA	( <sup>1</sup> )
United States.....	198.2	(NA)	Mississippi.....	AA	( <sup>1</sup> )
			West South Central Division.....	CC	3.1
Northeast Region.....	26.2	(NA)	Texas.....	CC	BB
New England Division.....	14.5	(NA)			
Massachusetts.....	1.2	(NA)	West Region.....	129.4	120.0
Connecticut.....	13.3	(NA)	Mountain Division.....	1.3	( <sup>1</sup> )
Middle Atlantic Division.....	11.7	(NA)	Pacific Division.....	128.1	GG
New York.....	CC	(NA)	California.....	127.7	GG
Pennsylvania.....	7.0	(NA)			
			SIGHTING AND FIRE CONTROL EQUIPMENT FROM OWN LENSES, ETC. (38322)		
North Central Region.....	122.3	(NA)	United States.....	51.1	62.1
East North Central Division.....	GG	(NA)			
Ohio.....	51.3	(NA)	Northeast Region.....	17.4	24.8
Illinois.....	58.0	(NA)	New England Division.....	EE	EE
Michigan.....	BB	(NA)	Maine.....	BB	( <sup>1</sup> )
Wisconsin.....	BB	(NA)	New Hampshire.....	AA	BB
West North Central Division.....	CC	(NA)	Massachusetts.....	CC	CC
Minnesota.....	CC	(NA)	Middle Atlantic Division.....	CC	EE
			New York.....	1.3	9.6
South Region.....	11.5	(NA)	New Jersey.....	AA	( <sup>1</sup> )
South Atlantic Division.....	BB	(NA)	Pennsylvania.....	BB	BB
North Carolina.....	AA	(NA)			
East South Central Division.....	CC	(NA)	North Central Region.....	BB	5.5
Tennessee.....	CC	(NA)	West North Central Division.....	BB	( <sup>1</sup> )
West South Central Division.....	BB	(NA)	Missouri.....	BB	( <sup>1</sup> )
Texas.....	BB	(NA)			
West Region.....	38.1	(NA)	South Region.....	EE	12.4
Mountain Division.....	FF	(NA)	West South Central Division.....	EE	CC
Colorado.....	EE	(NA)	Texas.....	EE	CC
New Mexico.....	BB	(NA)			
Pacific Division.....	EE	(NA)	West Region.....	17.5	19.4
California.....	EE	(NA)	Pacific Division.....	17.5	19.4
			California.....	17.5	19.4
OPTICAL INSTRUMENTS AND LENSES, NOT SIGHT OR FIRE EQUIPMENT (38321)			SIGHTING AND FIRE CONTROL EQUIPMENT FROM PURCHASED LENSES (38323) <sup>3</sup>		
United States.....	444.4	351.2	United States.....	32.0	(NA)
Northeast Region.....	259.7	208.4	Northeast Region.....	EE	(NA)
New England Division.....	149.5	112.2	Middle Atlantic Division.....	EE	(NA)
New Hampshire.....	BB	BB	New York.....	EE	(NA)
Massachusetts.....	FF	FF			
Connecticut.....	GG	GG	North Central Region.....	7.0	(NA)
Middle Atlantic Division.....	110.2	96.2	East North Central Division.....	7.0	(NA)
New York.....	80.7	77.4	Ohio.....	BB	(NA)
New Jersey.....	6.0	7.6	Illinois.....	AA	(NA)
Pennsylvania.....	23.5	11.2	Michigan.....	BB	(NA)
North Central Region.....	33.5	17.5	South Region.....	CC	(NA)
East North Central Division.....	27.4	17.1	South Atlantic Division.....	CC	(NA)
Ohio.....	8.6	AA	Florida.....	CC	(NA)
Indiana.....	BB	( <sup>1</sup> )			
Illinois.....	13.9	12.5	West Region.....	5.9	(NA)
Michigan.....	BB	3.0	Pacific Division.....	5.9	(NA)
			Oregon.....	BB	(NA)
			California.....	BB	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9      CC.....\$5.0 to \$9.9      FF.....\$20.0 to \$49.9  
BB.....\$2.0 to \$4.9      EE.....\$10.0 to \$19.9      GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>Data for 1967 are not shown.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

<sup>3</sup>The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 9 percent of the total 1967 shipments at the U.S. level.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3811	Engineering and scientific instruments.....	1,106.0	1,110.5	1,215.9	1,115.3	1,100.3	1,049.0	688.5	758.6
38111	Aeronautical, nautical, and navigational instruments.....	573.7	479.1	594.4	602.7	626.8	585.5	410.6	509.9
38112	Laboratory and scientific instruments.....	335.9	482.9	453.0	325.9	(S)	259.7	161.6	229.1
38113	Surveying and drafting instruments and laboratory furniture..	126.2	130.5	145.6	142.5	135.1	139.4	104.1	
38110	Engineering and scientific instruments, n.s.k.....	70.2	18.0	(22.9)	44.2	(42.7)	64.4	12.3	19.7
38220	Automatic temperature controls.....	658.1	594.1	555.0	563.3	542.7	523.6	431.6	319.9
38230	Process control instruments <sup>2</sup> .....	794.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3824	Fluid meters and counting devices.....	327.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38242	Integrating meters, nonelectrical type.....	207.7	217.3	204.5	206.2	195.8	189.2	163.7	119.4
38243	Counting devices <sup>2</sup> .....	48.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38244	Motor vehicle instruments, except electric.....	70.1	55.2	41.2	54.4	58.5	71.4	69.8	70.8
38240	Fluid meters and counting devices, n.s.k.....	.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3825	Instruments to measure electricity.....	1,329.7	1,135.2	1,206.3	1,316.5	1,195.1	1,137.1	736.2	575.1
38251	Integrating instruments, electrical.....	169.5	130.2	131.4	126.4	120.2	101.6	93.2	88.8
38252	Test equipment for electrical radio and communication circuits and motors.....	869.0	582.4	659.3	802.1	737.3	700.4	443.4	341.9
38253	Other electrical measuring instruments.....	223.4	<sup>3</sup> 374.9	<sup>3</sup> 389.9	<sup>3</sup> 358.7	<sup>3</sup> 307.1	279.2	185.3	127.4
38250	Instruments to measure electricity, n.s.k.....	67.8	47.7	(25.7)	29.3	(30.5)	56.5	14.3	17.0
3829	Measuring and controlling devices, n.e.c.....	585.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38291	Aircraft engine instruments, except electric.....	74.5	60.1	75.1	(S)	(108.4)	120.0	66.4	55.5
38292	Physical properties testing and inspection equipment <sup>2</sup> .....	106.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38293	Commercial, meteorological, and general purpose instruments <sup>2</sup> .....	94.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38294	Nuclear radiation, detection, and monitoring instruments <sup>2</sup> ..	198.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
38290	Measuring and controlling devices, n.e.c., n.s.k.....	112.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3832	Optical instruments and lenses.....	584.7	462.5	578.3	664.8	(NA)	559.1	376.5	115.5
38321	Optical instruments and lenses, except sighting and fire-control equipment.....	444.4	364.2	462.6	432.6	373.0	353.8	212.8	(NA)
38322	Sighting and fire-control equipment made from manufactured lenses, etc.....	51.1	46.6	37.8	60.3	60.1	69.5	51.1	
38323	Sighting and fire-control equipment made from purchased lenses.....	32.0	50.7	72.4	139.8	(S)	107.2	107.0	
38320	Optical instruments and lenses, n.s.k.....	57.2	(1.0)	(5.5)	32.1	31.6	28.6	5.7	

(NA) Not available. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ significantly from the prior years. Products shifting into or out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

<sup>3</sup>The individual product codes included in this class of products for 1972 differ from the 1967 definition. Products shifting into or out of this class of products represent approximately 9 percent of the total 1967 shipments at the U.S. level.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3811.--ENGINEERING AND SCIENTIFIC INSTRUMENTS					
	Materials, parts, containers, and supplies, total.....		(X)	308.3	(X)	340.8
	Mill shapes and forms (except castings):					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	(NA)	.8	1.1	.4
331012	Sheet and strip.....	..do.....	17.8	4.0	23.7	3.8
331013	Plates.....	..do.....	(NA)	.8	.4	.1
331015	Structural shapes.....	..do.....	(NA)	.5	.6	.2
331017	Wire and wire products.....	..do.....	(NA)	.3	(NA)	1.0
331019	All other carbon steel mill shapes and forms.....	..do.....	(NA)	.3		
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	(NA)	.7	.2	.1
331029	All other alloy steel mill shapes and forms.....	..do.....	(NA)	.3	.4	.2
	Stainless steel:					
331033	Sheet and strip.....	..do.....	(NA)	1.4	2.2	3.6
331050	All other stainless steel mill shapes and forms.....	..do.....	.3	.7		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	.3	.9	.5	1.0
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	.1	.2	.3	.2
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	.6	.6	.6	.4
335143	Plate, sheet, and strip (including military cups and discs)..	..do.....	.2	.2		
335152	Pipe and tube.....	..do.....	.2	.3	1.1	.5
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	1.3	1.1	3.2	2.1
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).	..do.....	.8	.8	.7	.6
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	.8	.6	.3	.3
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	(NA)	1.7	.7	1.0
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.4	3.3	3.3	3.0
336200	Copper and copper-base alloy.....	..do.....	(NA)	.8	1.0	.8
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous .....	Million units.	.1	3.5	.3	4.7
362115	Other fractional horsepower electric motors (excluding timing motors) .....	..do.....	.1	1.6	.2	4.5
	Bearings:					
356218	Ball.....	..do.....	(X)	2.3	(X)	2.1
356201	Roller.....	..do.....	(X)	.7		
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	(NA)	.5	.8	1.7
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	14.8	10.7	9.4	5.3
970099	All other materials and components, parts, containers, and supplies consumed.....	..do.....	(X)	215.3	(X)	221.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	..do.....	(X)	53.4	(X)	82.1
	INDUSTRY 3822.--ENVIRONMENTAL CONTROLS					
	Materials, parts, containers, and supplies, total.....		(X)	<sup>3</sup> 204.2	(X)	173.6
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	3.2	1.2	5.6	2.2
331012	Sheet and strip.....	..do.....	26.1	6.1	24.3	4.9
331013	Plates.....	..do.....	-	-	3.5	5.3
331015	Structural shapes.....	..do.....	-	-		
331017	Wire and wire products.....	..do.....	1.6	.4	3.0	3.7
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	1.6	3.2	3.0	3.7
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.8	2.7	(D)	(D)
331050	All other stainless steel mill shapes and forms.....	..do.....	2.1	3.0		
335790	Insulated wire and cable.....	Mil. lb. (cop- per content).	3.5	2.0		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only) .....	Million lb....	5.3	3.6	(D)	(D)
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	12.7	6.5	10.0	6.1
335143	Plate, sheet, and strip, including military cups and discs...	..do.....	6.0	5.1	5.4	3.7
335152	Pipe and tube.....	..do.....	6.0	6.7	5.5	5.1

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3822.--ENVIRONMENTAL CONTROLS--Continued Materials, parts, containers, and supplies--Continued Mill shapes and forms, except castings--Continued Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	3.3	1.6	8.5	3.3
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc...	...do.....	2.6	2.1		
335008	All other aluminum mill shapes and forms, (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....				
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	.3	.3	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	10.2	6.0	7.6	4.8
336200	Copper and copper-base alloy.....	...do.....	(D)	(D)	6.2	5.6
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	1,000 units...	(D)	(D)	3.2	4.3
362115	Other fractional horsepower electric motors (excluding timing motors).....	...do.....	88.3	.2		
	Bearings:					
356218	Ball.....	.....	-	-	(X)	(Z)
356201	Roller.....	.....	(X)	.1	-	-
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	(D)	(D)	(D)	(D)
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	5.5	2.2	(D)	(D)
970090	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	132.7	(X)	<sup>3</sup> 100.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	12.4	(X)	23.8
		Unit of measure	1972			
			Quantity	Delivered cost (million dollars)		
	INDUSTRY 3823.--PROCESS CONTROL INSTRUMENTS					
	Materials, parts, containers, and supplies, total.....	.....			(X)	237.8
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....		11.0		2.8
331012	Sheet and strip.....	...do.....		7.4		1.9
331013	Plates.....	...do.....		10.4		3.6
331015	Structural shapes.....	...do.....				
331017	Wire and wire products.....	...do.....				
331019	All other carbon steel mill shapes and forms.....	...do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....		.1		.2
331029	All other alloy steel mill shapes and forms.....	...do.....		.4		.9
	Stainless steel:					
331033	Sheet and strip.....	...do.....		1.0		2.0
331050	All other stainless steel mill shapes and forms.....	...do.....		1.8		4.3
335790	Insulated wire and cable.....	Mil. lb. (copper content).....		.8		1.0
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb.....		.4		.5
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....		4.1		2.8
335143	Plate, sheet, and strip, including military cups and discs...	...do.....		.4		.4
335152	Pipe and tube.....	...do.....		1.2		1.2
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	...do.....		1.2		.8
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....		.6		.4
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....		.5		.3
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.....		2.4		2.4
336100	Aluminum and aluminum-base alloy.....	Million lb.....		4.9		4.4
336200	Copper and copper-base alloy.....	...do.....		.5		.7
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units.....		.1		2.5
362115	Other fractional horsepower electric motors (excluding timing motors).....	...do.....		.1		1.4
	Bearings:					
356218	Ball.....	.....		(X)		.3
356201	Roller.....	.....				
367010	Electron tubes, except X-rays <sup>1</sup> .....	Million units.....		.5		.6
367408	Solid state semiconductors <sup>1</sup> .....	...do.....		12.8		6.2
970099	All other materials and components, parts, containers, and supplies consumed.....	.....			(X)	187.3
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....			(X)	8.9

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972			
			Quantity	Delivered cost		
			(million dollars)			
INDUSTRY 3824.--FLUID METERS AND COUNTING DEVICES						
	Materials, parts, containers, and supplies, total.....		(X)	3104.2		
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....	1.3	.5		
331012	Sheet and strip.....	..do.....	3.5	1.1		
331013	Plates.....	..do.....	.3	.1		
331015	Structural shapes.....	..do.....				
331017	Wire and wire products.....	..do.....				
331019	All other carbon steel mill shapes and forms.....	..do.....				
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	..do.....	(NA)	(Z)		
331029	All other alloy steel mill shapes and forms.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.2	.2		
331050	All other stainless steel mill shapes and forms.....	..do.....	.2	.3		
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	.1	.1		
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb.....	(D)	(D)		
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	.9	1.0		
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	.7	.8		
335152	Pipe and tube.....	..do.....	-	-		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	..do.....	3.4	1.2		
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc..	..do.....				
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....				
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.....	.5	.8		
336100	Aluminum and aluminum-base alloy.....	Million lb.....	15.6	15.3		
336200	Copper and copper-base alloy.....	..do.....	12.1	12.3		
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units.....	(D)	(D)		
362115	Other fractional horsepower electric motors (excluding timing motors).....	..do.....	(D)	(D)		
	Bearings:					
356218	Ball.....		(X)	.3		
356201	Roller.....		(D)	(D)		
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....	(D)	(D)		
367408	Solid state semiconductors <sup>1</sup> .....	..do.....	1.6	.6		
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	62.5		
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	7.0		
		Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
INDUSTRY 3825.--INSTRUMENTS TO MEASURE ELECTRICITY						
	Materials, parts, containers, and supplies, total.....		(X)	458.0	(X)	352.3
	Mill shapes except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.	1.9	1.3	1.1	.5
331012	Sheet and strip.....	..do.....	16.9	5.4	11.8	2.8
331013	Plates.....	..do.....	.8	.7	( <sup>4</sup> )	( <sup>4</sup> )
331015	Structural shapes.....	..do.....	( <sup>5</sup> )	( <sup>5</sup> )	.5	.1
331017	Wire and wire products.....	..do.....	.7	.8	.8	.8
331019	All other carbon steel mill shapes and forms.....	..do.....	<sup>5</sup> 6.5	<sup>5</sup> 2.6	<sup>4</sup> .9	<sup>4</sup> .5
	Alloy steel (except stainless):					
331021	Bars and bar shapes.....	..do.....	.1	.1	2.7	1.0
331029	All other alloy steel mill shapes and forms.....	..do.....	2.8	1.5		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.7	1.0	.5	.9
331050	All other stainless steel mill shapes and forms.....	..do.....	.6	.2		
335790	Insulated wire and cable.....	Mil. lb. (copper content).....	3.3	3.8	17.6	8.7
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb....	2.5	2.7	2.6	2.3
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	..do.....	2.0	1.8	2.6	1.6
335143	Plate, sheet, and strip, including military cups and discs....	..do.....	2.4	2.1	2.2	1.6
335152	Pipe and tube.....	..do.....	.1	.1	.2	.2

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost	Quantity	Delivered cost
				(million dollars)		(million dollars)
	INDUSTRY 3825.--ENVIRONMENTAL CONTROLS--Continued Materials, parts, containers, and supplies--Continued Mill shapes and forms, except castings--Continued Aluminum and aluminum-base alloy:					
335301	Sheet, plate, and foil.....	Million lb....	7.5	2.5	5.5	3.2
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc....	...do.....	2.0	1.6	1.6	1.3
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....	1.3	.3	1.2	.5
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.	.1	.4	.2	.7
336100	Aluminum and aluminum-base alloy.....	Million lb....	4.2	2.9	2.1	1.6
336200	Copper and copper-base alloy.....	...do.....	.1	(Z)	.1	.1
	Fractional horsepower electric motors and generators (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units.	.3	1.9	-	-
362115	Other fractional horsepower electric motors and generators (excluding timing motors).....	...do.....	.1	.8	.2	1.3
	Bearings:					
356218	Ball.....	.....	(X)	.3	(X)	.6
356228	Roller.....	.....	-	-	-	-
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.	1.2	4.5	5.1	8.1
367408	Solid state semiconductors <sup>1</sup> .....	...do.....	69.2	36.5	36.0	19.9
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	329.6	(X)	217.5
976000	Materials, containers, supplies, n.s.k. <sup>2</sup> .....	.....	(X)	52.6	(X)	76.5
		Unit of measure	1972			
			Quantity	Delivered cost		
				(million dollars)		
	INDUSTRY 3829.--MEASURING AND CONTROLLING DEVICES, N.E.C.					
	Materials, parts, containers, and supplies, total.....			(X)		176.0
	Mill shapes and forms, except castings:					
	Carbon steel:					
331011	Bars and bar shapes.....	1,000 s. tons.....		1.5		.7
331012	Sheet and strip.....	...do.....		5.3		1.4
331013	Plates.....	...do.....		.4		.1
331015	Structural shapes.....	...do.....		(NA)		.7
331017	Wire and wire products.....	...do.....		(Z)		(Z)
331019	All other carbon steel mill shapes and forms.....	...do.....		(NA)		.4
	Alloy steel, except stainless:					
331021	Bars and bar shapes.....	...do.....		(NA)		.3
331029	All other alloy steel mill shapes and forms.....	...do.....		(NA)		.6
	Stainless steel:					
331033	Sheet and strip.....	...do.....		.5		.6
331050	All other stainless steel mill shapes and forms.....	...do.....		.4		.8
335790	Insulated wire and cable.....	Mill. lb. (copper content).		(NA)		1.5
	Copper and copper-base alloy:					
335728	Bare wire (for electrical conduction only).....	Million lb.....		.2		.1
335102	Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....	...do.....		5.9		3.2
335143	Plate, sheet, and strip, including military cups and discs....	...do.....		3.3		2.6
335152	Pipe and tube.....	...do.....		1.1		1.0
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	...do.....		.5		.4
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	...do.....		(NA)		.6
335008	All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	...do.....		(NA)		.6
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	1,000 s. tons.....		2.6		1.3
336100	Aluminum and aluminum-base alloy.....	Million lb.....		.6		1.0
336200	Copper and copper-base alloy.....	...do.....		.8		1.0
	Fractional horsepower electric motors (under 1 hp.): <sup>1</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units.....		.1		1.4
362115	Other fractional horsepower electric motors (excluding timing motors).....	...do.....		.1		.8
	Bearings:					
356218	Ball.....	.....		(X)		.4
356201	Roller.....	.....		(X)		(Z)
367010	Electron tubes, except X-ray <sup>1</sup> .....	Million units.....		(Z)		1.2
367408	Solid state semiconductors <sup>1</sup> .....	...do.....		(NA)		3.3
970099	All other materials and components, parts, containers, and supplies consumed.....	.....		(X)		98.6
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....		(X)		51.4

See footnotes at end of table.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967 <sup>6</sup>	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3832.--OPTICAL INSTRUMENTS AND LENSES					
	Materials, parts, containers, and supplies, total.....		(X)	149.3	(X)	109.8
	Mill shapes and forms (except castings):					
	Carbon steel:					
331017	Wire and wire products.....	1,000 s. tons.	(NA)	.3	2.0	1.8
331019	All other carbon steel mill shapes and forms.....	...do.....	(NA)	.3		
331020	Alloy steel (except stainless).....	...do.....	(NA)	1.0		
331031	Stainless steel.....	...do.....	(NA)	.9		
	Aluminum and aluminum-base alloy:					
335405	Extruded shapes (including extruded rod, bar, pipe, tube, etc.).	...do.....	(NA)	1.0	1.3	1.4
335008	All other aluminum mill shapes and forms, (wire rolled rod and bar, powder, welded tubing, etc.).....	...do.....	(NA)	.9	.1	.2
	Castings (rough and semifinished): <sup>1</sup>					
332045	Steel.....	...do.....	(NA)	.5	(D)	(D)
336100	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	1.7	4.5	3.6
970099	All other materials, and components, parts, containers, and supplies consumed.....		(X)	108.5	(X)	<sup>3</sup> 49.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	34.2	(X)	52.9

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Excludes quantities produced and consumed in the same establishment.<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>3</sup>Includes cost for materials indicated by the symbol (D).<sup>4</sup>Material codes 331013 and 331019 are combined in 1967.<sup>5</sup>Material codes 331015 and 331019 are combined in 1972.<sup>6</sup>Excludes establishments classified in 1967 SIC code 1941 "Sighting and fire control equipment."



TABLE 7B. Fuels and Electric Energy Consumed: 1971

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	Quantity	Cost (million dollars)
	INDUSTRY 3811.--ENGINEERING AND SCIENTIFIC INSTRUMENTS			
	Purchased fuels and electric energy.....		(X)	9.5
	Purchased fuels, total.....		(X)	3.0
121005	Coal.....	1,000 s. tons....	2.4	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	254.8	.8
291141	Distillate.....	...do.....	81.7	.3
291151	Residual.....	...do.....	173.0	.5
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.6	1.1
960011	Other fuels.....		(X)	.1
975000	Fuels, n.s.k.....		(X)	1.0
960012	Purchased electric energy.....	Million kWh.....	472.0	6.5
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	2.0	-
	INDUSTRY 3822.--ENVIRONMENTAL CONTROLS			
	Purchased fuels and electric energy.....		(X)	5.5
	Purchased fuels, total.....		(X)	1.5
121005	Coal.....	1,000 s. tons....	-	-
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	47.9	.2
291141	Distillate.....	...do.....	37.9	.2
291151	Residual.....	...do.....	10.0	(Z)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.4	.9
960011	Other fuels.....		(X)	.1
975000	Fuels, n.s.k.....		(X)	.3
960012	Purchased electric energy.....	Million kWh.....	299.2	4.0
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards. (Z) Less than half of the unit of measurement shown.



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# Medical Instruments; Ophthalmic Goods; Photographic Equipment; Clocks, Watches, and Watchcases

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# EXPLANATORY TEXT

## MEDICAL INSTRUMENTS; OPHTHALMIC GOODS; PHOTOGRAPHIC EQUIPMENT; CLOCKS, WATCHES, AND WATCHCASES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3841—Surgical and Medical Instruments and Apparatus\*
- 3842—Orthopedic, Prosthetic, and Surgical Appliances and Supplies\*
- 3843—Dental Equipment and Supplies
- 3851—Ophthalmic Goods
- 3861—Photographic Equipment and Supplies
- 3873—Watches, Clocks, Clockwork Operated Devices, and Parts\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3841.—SURGICAL AND MEDICAL INSTRUMENTS (Short Title)

This industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus.

Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842, and

electrotherapeutic, electromedical, and X-ray apparatus in industry 3693.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Surgical and Medical Instruments Industry in 1972 totaled \$962 million. This included shipments of surgical and medical instruments (primary products) valued at \$803 million, shipments of other products (secondary products) valued at \$85 million, and miscellaneous receipts (mainly products bought and resold) of \$74 million.

Shipments of surgical and medical instruments (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent.

Shipments of surgical and medical instruments (primary products) from establishments classified in industry 3841 in 1972 represented 82 percent (coverage ratio) of these products valued at \$984 million shipped by all industries. In 1967, the coverage ratio was 69 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3841, these establishments accounted for 3 percent of value of shipments.

### INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES (Short Title)

This industry comprises establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies; arch supports and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment.

Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841.

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\* Note that the "short title" for this industry is used throughout the report.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Surgical Appliances and Supplies Industry in 1972 totaled \$1,456 million. This included shipments of surgical appliances and supplies (primary products) valued at \$1,028 million, shipments of other products (secondary products) valued at \$266 million, and miscellaneous receipts (mainly products bought and resold) of \$162 million.

Shipments of surgical appliances and supplies (primary products) in 1972 represented 79 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 80 percent.

Shipments of surgical appliances and supplies (primary products) from establishments classified in industry 3842 in 1972 represented 90 percent (coverage ratio) of these products valued at \$1,142 million shipped by all industries. In 1967, the coverage ratio was 86 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3842, these establishments accounted for 5 percent of value of shipments.

#### INDUSTRY 3843.—DENTAL EQUIPMENT AND SUPPLIES

This industry comprises establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges.

Dental laboratories constructing artificial dentures, bridges, inlays, and other dental restorations on specifications from dentists are classified in industry 8072.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Dental Equipment and Supplies Industry in 1972 totaled \$409 million. This included shipments of dental equipment and supplies (primary products) valued at \$331 million, shipments of other products (secondary products) valued at \$26 million, and miscellaneous receipts (mainly products bought and resold) of \$52 million.

Shipments of dental equipment and supplies (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of dental equipment and supplies (primary products) from establishments classified in industry 3843 in 1972 represented 94 percent (coverage ratio) of these products valued at \$352 million shipped by all industries. In 1967, the coverage ratio was also 94 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3843, these establishments accounted for 9 percent of value of shipments.

#### INDUSTRY 3851.—OPHTHALMIC GOODS

This industry comprises establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses.

Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841 and molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade industries.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Ophthalmic Goods Industry in 1972 totaled \$568 million. This included shipments of ophthalmic goods (primary products) valued at \$465 million, shipments of other products (secondary products) valued at \$72 million, and miscellaneous receipts (mainly products bought and resold) of \$32 million.

Shipments of ophthalmic goods (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 88 percent.



Shipments of ophthalmic goods (primary products) from establishments classified in industry 3851 in 1972 represented 97 percent (coverage ratio) of these products valued at \$484 million shipped by all industries. In 1967, the coverage ratio was 95 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3851, these establishments accounted for 8 percent of value of shipments.

#### **INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT AND SUPPLIES**

This industry comprises establishments primarily engaged in manufacturing photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; other photographic equipment; sensitized film, paper, cloth, and plates; and prepared photographic chemicals for use therewith.

Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels, and folders for photographic use are classified in SIC Major Group 26; photographic lenses in industry 3832; photographic glass in SIC Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in SIC Major Group 28; and photographic flash, flood, enlarger, and projection lamps in industry 3641.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system.

Value of shipments and other receipts of the Photographic Equipment and Supplies Industry in 1972 totaled \$5,579 million. This included shipments of photographic equipment and supplies (primary products) valued at \$5,047 million, shipments of other products (secondary products) valued at \$255 million, and miscellaneous receipts (mainly products bought and resold) of \$277 million.

Shipments of photographic equipment and supplies (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and

secondary). The industry specialization ratio in 1967 was also 95 percent.

Shipments of photographic equipment and supplies (primary products) from establishments classified in industry 3861 in 1972 represented 96 percent (coverage ratio) of these products valued at \$5,255 million shipped by all industries. In 1967, the coverage ratio was 97 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3861, these establishments accounted for 1 percent of value of shipments.

#### **INDUSTRY 3873.—WATCHES, CLOCKS, AND WATCHCASES (Short Title)**

This industry comprises establishments primarily engaged in manufacturing clocks (including electric), watches, watchcases, mechanisms for clockwork-operated devices, and clock and watch parts. This industry also includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases.

Establishments primarily engaged in manufacturing time clocks are classified in industry 3579, glass crystals in industry 3231, and unbreakable crystals in industry 3079.

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President.

The statistics for this industry, as classified under the 1972 edition of the SIC manual, were changed to code number 3873 from code numbers 3871 and 3872 in the previous classification system, but were not changed as to content.

Value of shipments and other receipts of the Watches, Clocks, and Watchcases Industry in 1972 totaled \$937 million. This included shipments of watches, clocks, and watchcases (primary products) valued at \$825 million, shipments of other products (secondary products) valued at \$75 million, and miscellaneous receipts (mainly receipts for repair work) of \$37 million.

Shipments of watches, clocks, and watchcases (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 84 percent.

Shipments of watches, clocks, and watchcases (primary products) from establishments classified in industry 3873 in



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## EXPLANATORY TEXT—Continued

1972 represented 94 percent (coverage ratio) of these products valued at \$871 million shipped by all industries. In 1967, the coverage ratio was 91 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small

number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3873, these establishments accounted for 3 percent of value of shipments.

TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3841.--SURGICAL AND MEDICAL INSTRUMENTS															
1972 Census.....	506	199	34.5	282.4	24.3	48.0	161.2	630.0	347.9	961.9	42.0	(NA)	203.6	90	82
1971 ASM.....	(NA)	(NA)	28.3	219.6	20.3	40.4	120.7	520.7	276.2	769.6	30.6	246.9	180.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	25.4	185.1	18.4	36.6	98.8	390.2	220.4	607.9	29.5	219.3	142.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	25.8	178.1	19.0	38.0	105.4	383.5	235.1	605.4	27.6	159.7	132.7	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	23.7	152.4	17.5	34.9	88.8	338.7	202.8	529.2	17.9	134.9	113.8	(NA)	(NA)
1967 Census.....	321	138	22.0	139.6	16.4	32.8	83.5	297.4	102.1	475.4	18.5	118.2	101.6	91	69
1966 ASM.....	(NA)	(NA)	17.6	108.3	13.4	26.8	64.4	228.2	141.5	360.1	13.4	(NA)	76.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	15.4	89.4	11.3	22.5	52.6	188.3	112.0	297.8	10.9	(NA)	59.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	14.7	83.0	11.1	21.9	50.8	165.7	131.8	296.6	6.2	71.4	55.6	(NA)	(NA)
1963 Census.....	294	117	15.1	83.3	11.5	22.9	52.5	168.6	126.9	284.0	10.5	61.5	54.1	88	74
1962 ASM.....	(NA)	(NA)	12.4	67.0	9.2	18.2	40.8	129.2	93.8	216.7	6.8	51.7	41.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	11.7	61.6	8.9	17.6	38.8	107.0	74.0	181.5	4.8	(NA)	33.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	11.6	58.1	8.8	17.6	36.8	96.8	64.2	159.6	4.4	(NA)	32.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	10.2	50.4	7.7	15.4	31.5	84.3	57.9	142.0	2.5	(NA)	31.0	(NA)	(NA)
1958 Census.....	231	88	10.3	44.9	8.1	16.2	31.0	85.2	48.9	130.5	2.8	(NA)	30.6	83	76
INDUSTRY 3842.--SURGICAL APPLIANCES AND SUPPLIES															
1972 Census.....	873	257	44.0	365.9	29.9	58.3	198.1	930.7	536.2	1,456.1	47.5	(NA)	266.1	79	90
1971 ASM.....	(NA)	(NA)	40.2	319.4	27.4	51.9	166.4	834.6	448.6	1,273.5	36.4	298.8	235.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	41.2	306.1	28.7	54.1	160.8	770.4	448.5	1,204.9	30.3	301.5	228.8	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	44.5	308.1	30.8	60.0	172.7	772.5	465.6	1,224.3	32.8	284.5	220.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	40.7	272.9	28.3	55.0	153.1	669.4	392.0	1,049.3	29.5	265.5	184.6	(NA)	(NA)
1967 Census.....	811	211	35.2	220.3	24.6	48.0	125.7	527.2	324.5	837.9	30.5	217.3	154.0	80	86
1966 ASM.....	(NA)	(NA)	34.7	206.3	23.7	47.4	106.9	467.4	314.4	768.9	24.7	(NA)	143.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	31.6	193.3	21.3	42.3	101.6	418.3	268.9	680.4	17.3	(NA)	114.9	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	28.4	168.4	19.0	38.3	88.8	379.6	245.9	622.6	18.4	173.2	102.5	(NA)	(NA)
1963 Census.....	704	162	28.3	161.8	19.0	37.9	85.8	370.3	230.1	596.7	17.8	163.2	100.2	80	90
1962 ASM.....	(NA)	(NA)	28.9	175.9	17.6	35.1	78.4	365.9	230.8	583.7	20.4	159.9	96.8	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	27.9	265.0	17.1	34.9	73.7	357.1	225.6	556.5	*30.4	(NA)	100.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	27.4	159.9	17.3	34.7	72.9	371.0	233.7	583.9	12.1	(NA)	91.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	26.5	148.5	17.6	35.6	71.1	331.7	217.0	547.6	(S)	(NA)	73.6	(NA)	(NA)
1958 Census.....	590	161	24.2	114.9	16.3	31.5	62.1	257.6	200.4	461.8	9.1	(NA)	70.4	84	90
INDUSTRY 3843.--DENTAL EQUIPMENT AND SUPPLIES															
1972 Census.....	429	107	12.4	110.0	8.5	16.6	58.3	262.3	159.8	409.2	14.9	(NA)	91.9	93	94
1971 ASM.....	(NA)	(NA)	10.5	83.4	7.5	14.4	47.7	173.4	108.8	284.4	9.4	73.7	63.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	11.0	82.8	7.8	15.3	45.1	171.0	103.1	274.2	8.3	71.1	65.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	10.7	74.1	7.4	14.2	40.8	172.0	102.9	265.0	*8.7	68.7	63.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	10.6	71.9	7.6	14.8	40.2	160.4	98.4	251.0	8.1	62.8	54.0	(NA)	(NA)
1967 Census.....	334	76	10.2	67.4	7.3	14.3	38.3	141.0	82.8	220.5	4.5	54.0	45.9	94	94
1966 ASM.....	(NA)	(NA)	9.5	60.6	6.6	13.3	35.4	130.1	74.0	205.6	*5.0	(NA)	41.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	9.1	55.6	6.6	12.6	32.7	124.6	70.1	194.0	4.5	(NA)	39.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	8.1	48.1	5.7	11.5	28.2	105.4	61.7	164.6	*3.2	40.8	35.9	(NA)	(NA)
1963 Census.....	316	66	8.0	46.1	5.8	11.2	27.1	95.9	52.8	147.8	2.7	38.0	33.7	94	92
1962 ASM.....	(NA)	(NA)	7.3	39.1	5.1	10.0	22.6	88.0	51.8	139.6	1.9	35.6	30.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	7.4	38.1	5.2	10.0	22.2	76.3	48.3	124.0	1.3	(NA)	30.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	7.5	38.1	5.4	10.3	23.2	79.5	48.3	125.5	2.8	(NA)	29.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.2	36.3	5.2	10.2	22.1	75.0	44.1	118.2	1.8	(NA)	27.4	(NA)	(NA)
1958 Census.....	249	55	7.2	34.8	5.2	10.2	21.1	71.6	44.9	115.7	1.5	(NA)	26.4	95	92
INDUSTRY 3851.--OPHTHALMIC GOODS <sup>2</sup>															
1972 Census <sup>2</sup> .....	499	125	26.7	183.5	20.6	39.7	129.9	416.5	180.0	568.2	17.2	(NA)	160.3	88	97
1971 ASM.....	(NA)	(NA)	28.0	183.3	21.3	40.4	124.4	401.7	176.6	565.2	15.7	183.9	146.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	27.1	170.7	21.2	40.8	120.6	359.7	161.2	518.8	21.3	173.9	126.2	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.5	152.9	19.7	39.1	112.7	334.9	151.5	473.9	13.2	155.4	113.2	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	24.0	142.4	19.3	38.0	101.7	298.6	135.3	434.3	9.3	153.9	97.8	(NA)	(NA)
1967 Census.....	461	142	25.6	143.4	20.8	41.1	103.4	286.4	144.1	426.0	14.5	148.9	97.8	88	95
1966 ASM.....	(NA)	(NA)	23.0	121.4	18.9	38.2	89.7	237.0	116.8	346.8	12.6	(NA)	86.2	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	22.4	112.8	18.2	37.0	81.3	215.6	106.6	318.2	10.0	(NA)	77.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	21.0	104.5	17.0	34.6	76.2	197.0	104.1	300.3	8.9	103.6	74.4	(NA)	(NA)
1963 Census.....	229	109	20.3	96.4	16.5	32.8	69.0	177.9	96.6	272.7	9.1	99.6	72.7	86	92
1962 ASM.....	(NA)	(NA)	21.1	93.7	17.8	35.6	70.2	159.9	81.7	241.5	7.1	93.2	66.5	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.3	83.7	16.0	31.7	61.1	147.6	72.2	217.8	9.0	(NA)	65.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.7	84.2	17.1	33.7	63.1	152.8	74.3	225.5	5.7	(NA)	64.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	19.5	78.9	16.4	32.4	59.4	146.3	70.9	214.8	5.1	(NA)	62.7	(NA)	(NA)
1958 Census.....	246	104	18.2	71.5	15.3	30.0	53.5	136.7	62.0	194.4	5.4	(NA)	59.6	87	98

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3861.--PHOTOGRAPHIC EQUIPMENT AND SUPPLIES														
1972 Census.....	623	221	94.7	1,108.3	55.2	105.3	540.8	4,081.0	1,453.0	5,579.4	201.8	(NA)	739.6	95	96
1971 ASM .....	(NA)	(NA)	88.2	953.9	49.3	87.7	436.3	3,488.0	1,223.6	4,709.7	187.0	1,929.2	671.2	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	92.5	952.5	51.4	96.9	430.5	3,187.3	1,267.9	4,413.5	219.8	1,792.6	659.6	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	95.9	937.0	54.7	106.7	432.9	3,020.1	1,372.1	4,375.3	192.2	1,257.7	590.9	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	91.5	832.9	52.4	102.8	395.1	2,663.9	1,314.1	4,008.7	212.7	1,511.7	514.1	(NA)	(NA)
1967 Census.....	557	214	94.9	820.2	56.2	112.1	401.3	2,480.7	1,203.3	3,664.5	217.9	1,301.4	568.6	95	97
1966 ASM .....	(NA)	(NA)	84.3	710.9	55.3	109.2	377.3	2,282.0	1,099.9	3,285.7	148.4	(NA)	524.9	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	70.5	599.8	45.4	91.9	313.5	1,773.2	825.9	2,552.8	98.9	(NA)	375.2	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	66.6	532.7	41.0	81.8	272.2	1,485.5	631.6	2,091.2	46.0	882.6	319.8	(NA)	(NA)
1963 Census.....	538	187	64.9	498.8	39.2	77.8	251.6	1,270.1	580.5	1,851.2	78.6	804.2	289.5	95	97
1962 ASM .....	(NA)	(NA)	59.4	440.0	35.6	70.6	223.0	1,098.1	573.5	1,635.9	57.2	737.3	260.9	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	61.2	427.8	37.0	73.0	217.8	987.0	521.5	1,517.8	49.2	(NA)	244.3	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	62.4	418.8	38.9	76.5	219.0	978.9	505.6	1,467.0	60.0	(NA)	243.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	56.1	376.9	35.2	70.6	199.9	876.8	450.7	1,318.0	47.1	(NA)	214.1	(NA)	(NA)
1958 Census .....	480	159	60.3	369.0	38.5	74.3	201.6	788.7	412.3	1,204.9	46.8	(NA)	204.2	94	94
	INDUSTRY 3873.--WATCHES, CLOCKS, AND WATCHCASES <sup>3</sup>														
1972 Census.....	202	99	30.8	230.4	24.7	47.6	153.8	466.0	482.0	937.2	18.8	(NA)	187.1	91	94
1971 ASM .....	(NA)	(NA)	32.3	224.4	24.6	47.8	142.3	464.5	442.7	906.8	16.8	170.3	195.0	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	35.0	231.9	26.4	50.2	141.4	469.0	429.7	888.8	17.9	*166.5	194.9	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	39.1	243.6	30.3	59.2	157.9	523.6	470.6	998.7	12.2	*140.6	183.4	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	38.9	229.8	30.7	59.7	153.1	473.8	470.4	946.5	11.1	135.5	182.9	(NA)	(NA)
1967 Census.....	223	103	35.2	209.0	27.6	55.2	139.5	392.9	417.5	802.1	10.4	128.0	185.1	(NA)	(NA)
1966 ASM .....	(NA)	(NA)	34.0	193.9	26.4	52.3	130.5	401.3	352.1	727.5	10.7	(NA)	163.0	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	32.0	175.2	25.0	49.8	116.8	362.9	310.7	656.8	*7.8	(NA)	126.4	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	30.0	161.9	23.1	46.2	107.6	332.0	267.3	586.7	*7.4	102.1	109.3	(NA)	(NA)
1963 Census.....	220	98	29.7	157.6	23.3	45.7	102.8	307.3	243.7	544.8	9.2	96.2	95.4	(NA)	(NA)
1962 ASM .....	(NA)	(NA)	26.3	139.3	20.1	39.3	87.0	252.1	213.1	451.9	(NA)	92.8	95.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	24.5	128.5	18.2	35.9	79.3	230.0	196.9	425.3	(NA)	(NA)	92.2	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	27.3	136.9	21.0	40.4	85.8	240.3	202.5	437.9	(NA)	(NA)	92.4	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	28.5	139.8	22.9	45.3	92.8	261.2	197.0	442.4	(NA)	(NA)	89.0	(NA)	(NA)
1958 Census .....	329	89	26.2	119.3	20.5	40.5	80.2	183.6	173.1	369.6	(NA)	(NA)	67.8	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3841	Industry 3842	Industry 3843	Industry 3851	Industry 3861	Industry 3873
1972.....	449	780	385	445	554	184
1967.....	298	755	314	432	505	198
1963.....	256	525	267	211	499	201

(NA) Not available. (S) Withheld because the data did not meet publication standards.

\* These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The figures for 1972 are not strictly comparable with those for prior years. The report form used for this industry in the 1972 Census of Manufactures contained an inquiry designed to identify establishments either grinding lenses or fitting glasses to prescription. Such establishments have been reclassified to trade industries. The comparable 1972 estimates published in the Annual Survey of Manufactures are essentially comparable to estimates for 1971 and prior years.

<sup>3</sup>Industry 3873, Watches, Clocks, and Watchcases was published as two separate industries in 1967: 3871, Watches and Clocks; and 3872, Watchcases.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual men-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3841.--SURGICAL AND MEDICAL INSTRUMENTS											
1972 Census.....	8,186	(NA)	70	1,975	3.36	.36	.66	(NA)	18,261	45	13.13
1971 ASM.....	7,760	8,720	72	1,990	2.99	.36	.64	.32	18,399	42	12.89
1970 ASM.....	7,287	8,630	72	1,989	2.70	.36	.67	.36	15,362	47	10.66
1969 ASM.....	6,903	6,190	74	2,000	2.77	.39	.68	.26	14,864	46	10.09
1968 ASM.....	6,430	5,690	74	1,994	2.54	.38	.67	.25	14,291	45	9.70
1967 Census.....	6,145	5,370	74	2,004	2.54	.40	.70	.25	13,562	47	9.07
1966 ASM.....	6,158	(NA)	76	2,004	2.40	.39	.69	(NA)	12,980	47	8.52
1965 ASM.....	5,812	(NA)	74	1,981	2.34	.38	.68	(NA)	12,238	47	8.38
1964 ASM.....	5,653	4,860	75	1,980	2.31	.44	.72	.24	11,286	50	7.55
1963 Census.....	5,502	4,070	76	1,986	2.29	.45	.74	.22	11,129	49	7.36
1962 ASM.....	5,415	4,170	74	1,976	2.24	.43	.74	.24	10,441	52	7.09
1961 ASM.....	5,250	(NA)	76	1,976	2.21	.41	.75	(NA)	9,110	58	6.09
1960 ASM.....	4,999	(NA)	76	1,998	2.09	.40	.77	(NA)	8,321	60	5.50
1959 ASM.....	4,922	(NA)	75	2,010	2.04	.41	.76	(NA)	8,233	60	5.46
1958 Census.....	4,360	(NA)	78	2,005	1.92	.38	.72	(NA)	8,273	53	5.27
INDUSTRY 3842.--SURGICAL APPLIANCES AND SUPPLIES											
1972 Census.....	8,316	(NA)	68	1,950	3.40	.36	.61	(NA)	21,364	39	16.12
1971 ASM.....	7,945	7,430	68	1,894	3.21	.35	.60	.24	20,761	38	16.08
1970 ASM.....	7,430	7,320	70	1,885	2.97	.37	.63	.25	18,699	40	14.24
1969 ASM.....	6,924	6,390	69	1,948	2.88	.38	.63	.23	17,360	40	12.88
1968 ASM.....	6,705	6,520	70	1,943	2.78	.37	.63	.25	16,447	41	12.17
1967 Census.....	6,253	6,170	70	1,953	2.62	.39	.65	.26	14,963	42	10.99
1966 ASM.....	5,951	(NA)	68	2,000	2.25	.41	.68	(NA)	13,485	44	9.85
1965 ASM.....	6,125	(NA)	68	1,985	2.40	.40	.68	(NA)	13,253	46	9.88
1964 ASM.....	5,937	6,100	67	2,012	2.32	.40	.67	.28	13,385	44	9.92
1963 Census.....	5,724	5,770	67	1,996	2.26	.39	.66	.27	13,099	44	9.77
1962 ASM.....	6,090	5,530	61	1,994	2.24	.40	.70	.27	12,669	48	10.43
1961 ASM.....	5,920	(NA)	61	2,040	2.11	.41	.70	(NA)	12,815	46	10.23
1960 ASM.....	5,833	(NA)	63	2,006	2.10	.40	.67	(NA)	13,535	43	10.68
1959 ASM.....	5,612	(NA)	66	2,029	2.00	.40	.67	(NA)	12,536	45	9.31
1958 Census.....	4,751	(NA)	67	1,933	1.97	.43	.68	(NA)	10,656	45	8.19
INDUSTRY 3843.--DENTAL EQUIPMENT AND SUPPLIES											
1972 Census.....	8,871	(NA)	69	1,953	3.51	.39	.66	(NA)	21,153	42	15.80
1971 ASM.....	7,943	7,020	71	1,920	3.31	.38	.68	.26	16,514	48	12.04
1970 ASM.....	7,527	6,460	71	1,962	2.95	.38	.68	.26	15,545	48	11.18
1969 ASM.....	6,925	6,420	69	1,919	2.87	.39	.67	.26	16,075	43	12.11
1968 ASM.....	6,783	5,920	72	1,947	2.72	.39	.68	.25	15,132	45	10.84
1967 Census.....	6,566	5,290	72	1,973	2.67	.36	.67	.24	13,678	48	9.66
1966 ASM.....	6,393	(NA)	69	2,015	2.67	.36	.65	(NA)	13,732	47	9.81
1965 ASM.....	6,097	(NA)	72	1,907	2.60	.36	.65	(NA)	13,668	45	9.91
1964 ASM.....	5,921	5,040	70	2,013	2.44	.37	.67	.25	12,964	46	9.15
1963 Census.....	5,754	4,750	72	1,949	2.42	.36	.67	.26	11,973	48	8.55
1962 ASM.....	5,365	4,880	70	1,951	2.27	.37	.65	.26	12,087	44	8.82
1961 ASM.....	5,152	(NA)	71	1,923	2.21	.39	.70	(NA)	10,326	50	7.59
1960 ASM.....	5,059	(NA)	72	1,907	2.25	.38	.69	(NA)	10,565	48	7.70
1959 ASM.....	5,017	(NA)	72	1,952	2.16	.37	.68	(NA)	10,355	48	7.34
1958 Census.....	4,802	(NA)	72	1,949	2.07	.39	.69	(NA)	9,883	49	7.03
INDUSTRY 3851.--OPHTHALMIC GOODS											
1972 Census.....	6,873	(NA)	77	1,927	3.27	.32	.64	(NA)	15,599	44	10.49
1971 ASM.....	6,546	6,570	76	1,897	3.08	.31	.64	.33	14,346	46	9.94
1970 ASM.....	6,299	6,420	78	1,925	2.96	.31	.64	.34	13,273	48	8.82
1969 ASM.....	6,241	6,340	80	1,985	2.88	.32	.64	.33	13,669	46	8.57
1968 ASM.....	5,933	6,410	80	1,969	2.68	.31	.64	.35	12,442	48	7.86
1967 Census.....	5,603	5,820	81	1,982	2.51	.34	.67	.35	11,194	50	6.96
1966 ASM.....	5,271	(NA)	82	2,021	2.35	.34	.69	(NA)	10,291	51	6.20
1965 ASM.....	5,033	(NA)	81	2,033	2.19	.33	.69	(NA)	9,617	52	5.82
1964 ASM.....	4,987	4,930	81	2,037	2.20	.35	.69	.34	9,401	53	5.69
1963 Census.....	4,748	4,910	81	1,990	2.10	.35	.71	.37	8,765	54	5.43
1962 ASM.....	4,450	4,420	84	2,001	1.98	.34	.73	.39	7,591	59	4.50
1961 ASM.....	4,342	(NA)	83	1,984	1.93	.33	.72	(NA)	7,660	57	4.65
1960 ASM.....	4,077	(NA)	83	1,967	1.87	.33	.70	(NA)	7,397	55	4.53
1959 ASM.....	4,050	(NA)	84	1,976	1.83	.33	.70	(NA)	7,508	54	4.52
1958 Census.....	3,922	(NA)	84	1,964	1.78	.32	.69	(NA)	7,501	52	4.56

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3861.--PHOTOGRAPHIC EQUIPMENT AND SUPPLIES											
1972 Census.....	11,703	(NA)	58	1,908	5.14	.26	.46	(NA)	43,094	27	38.76
1971 ASM.....	10,815	21,870	56	1,779	4.98	.26	.46	.41	39,546	27	39.77
1970 ASM.....	10,297	19,380	56	1,885	4.44	.29	.50	.41	34,457	30	32.89
1969 ASM.....	9,771	13,110	57	1,951	4.06	.31	.53	.29	31,492	31	28.30
1968 ASM.....	9,103	16,520	57	1,962	3.84	.33	.54	.38	29,114	31	25.91
1967 Census.....	8,649	13,710	59	1,994	3.58	.33	.55	.36	26,182	33	22.19
1966 ASM.....	8,436	(NA)	66	1,973	3.46	.33	.55	(NA)	27,078	31	20.90
1965 ASM.....	8,504	(NA)	64	2,026	3.41	.32	.56	(NA)	25,138	34	19.30
1964 ASM.....	7,998	13,250	62	1,994	3.33	.30	.56	.42	22,302	36	18.17
1963 Census.....	7,682	12,390	60	1,981	3.24	.31	.58	.43	19,559	39	16.34
1962 ASM.....	7,404	12,410	60	1,984	3.16	.35	.62	.45	18,478	40	15.55
1961 ASM.....	6,988	(NA)	60	1,971	2.99	.34	.63	(NA)	16,121	43	13.53
1960 ASM.....	6,710	(NA)	62	1,968	2.86	.34	.63	(NA)	15,683	43	12.80
1959 ASM.....	6,719	(NA)	63	2,005	2.83	.34	.63	(NA)	15,629	43	12.41
1958 Census.....	6,123	(NA)	64	1,927	2.71	.34	.65	(NA)	13,089	47	10.62
INDUSTRY 3873.--WATCHES, CLOCKS, AND WATCHCASES											
1972 Census.....	7,480	(NA)	80	1,927	3.23	.51	.76	(NA)	15,129	49	9.79
1971 ASM.....	6,947	5,270	77	1,935	2.98	.49	.74	.19	14,381	48	9.72
1970 ASM.....	6,626	4,760	75	1,898	2.82	.48	.74	.19	13,400	49	9.36
1969 ASM.....	6,230	3,600	77	1,954	2.67	.47	.72	.14	13,391	47	8.84
1968 ASM.....	5,907	3,480	79	1,945	2.56	.50	.74	.14	12,180	49	7.94
1967 Census.....	5,938	3,640	78	2,000	2.53	.52	.78	.16	11,162	53	7.12
1966 ASM.....	8,079	(NA)	(NA)	1,981	2.50	.48	.75	(NA)	16,721	48	7.67
1965 ASM.....	5,475	(NA)	78	1,992	2.35	.47	.74	(NA)	11,341	48	7.29
1964 ASM.....	5,397	3,400	77	2,000	2.33	.46	.73	.17	11,067	49	7.19
1963 Census.....	5,306	3,240	78	1,961	2.25	.45	.74	.18	10,347	51	6.72
1962 ASM.....	5,297	3,530	76	1,955	2.21	.47	.78	.21	9,586	55	6.41
1961 ASM.....	5,245	(NA)	74	1,973	2.21	.46	.77	(NA)	9,388	56	6.41
1960 ASM.....	5,015	(NA)	77	1,924	2.12	.46	.78	(NA)	8,802	57	5.95
1959 ASM.....	4,905	(NA)	80	1,978	2.05	.45	.76	(NA)	9,165	54	5.77
1958 Census.....	4,553	(NA)	78	1,976	1.98	.47	.79	(NA)	7,008	65	4.53

(NA) Not available.

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New industry 3873. Watches, Clocks, and Watchcases.....	202	99	30.8	466.0	937.2	(X)	(X)	(X)	(X)	(X)
Old industry 3871. Watches and Clocks.....	169	80	27.7	427.1	868.7	168	80	(D)	(D)	(D)
Old industry 3872. Watchcases.....	33	19	3.1	38.9	68.5	33	19	3.1	38.9	68.5

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3841-- SURGICAL AND MEDICAL INSTRUMENTS													
UNITED STATES . . . . .	506	199	34.5	282.4	24.3	48.0	161.2	630.0	347.9	961.9	42.0	22.0	297.4
NORTHEAST REGION . . . . .	204	85	16.3	142.8	11.0	21.6	76.0	292.7	166.0	453.6	13.6	10.8	134.0
NEW ENGLAND DIVISION . . . . .	72	32	6.2	52.7	4.1	7.9	27.4	110.9	61.2	170.9	5.8	3.6	42.9
NEW HAMPSHIRE . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS . . . . .	42	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	19.5
RHODE ISLAND . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT . . . . .	21	9	1.8	14.3	1.4	2.9	9.9	37.1	22.0	58.6	2.3	EE	(D)
MIDDLE ATLANTIC DIVISION . . . . .	132	53	10.2	90.2	6.9	13.7	48.6	181.8	104.8	282.8	7.8	6.7	74.1
NEW YORK . . . . .	68	28	4.8	41.2	3.4	7.1	24.6	94.8	43.6	135.9	4.6	2.8	36.6
NEW JERSEY . . . . .	39	15	4.1	40.0	2.5	4.6	18.1	71.6	49.4	120.4	(D)	3.0	28.2
PENNSYLVANIA . . . . .	25	10	1.3	9.0	1.0	1.9	6.0	15.4	11.8	26.5	(D)	.9	9.3
NORTH CENTRAL REGION . . . . .	123	57	8.3	65.5	5.8	11.4	39.2	169.4	85.6	246.0	8.5	5.3	83.5
EAST NORTH CENTRAL DIVISION . . . . .	85	43	5.3	44.5	3.3	6.5	23.7	99.7	55.9	147.8	5.0	3.4	50.1
OHIO . . . . .	19	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	7.6
INDIANA . . . . .	11	5	1.2	10.6	.7	1.4	3.9	33.1	14.4	43.5	1.1	.88	(D)
ILLINOIS . . . . .	32	17	2.0	15.1	1.1	2.3	9.3	22.4	13.6	35.1	2.2	1.1	12.8
MICHIGAN . . . . .	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WISCONSIN . . . . .	9	6	.8	7.7	.6	1.1	4.7	19.7	13.5	30.9	.9	1.0	15.0
WEST NORTH CENTRAL DIVISION . . . . .	38	14	3.0	20.9	2.5	4.9	15.5	69.7	29.7	98.3	3.5	1.9	33.5
MINNESOTA . . . . .	18	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MISSOURI . . . . .	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEBRASKA . . . . .	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH REGION . . . . .	69	27	4.9	34.4	3.9	7.7	23.3	67.7	48.2	116.1	14.2	2.7	33.7
SOUTH ATLANTIC DIVISION . . . . .	40	15	2.9	22.0	2.3	4.7	14.5	39.4	34.6	73.1	6.5	1.6	20.6
NORTH CAROLINA . . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH CAROLINA . . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA . . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
FLORIDA . . . . .	17	7	1.3	10.9	.9	1.8	6.0	21.9	12.4	34.3	3.4	CC	(D)
EAST SOUTH CENTRAL DIVISION . . . . .	11	6	.9	5.5	.7	1.2	3.5	13.6	8.6	22.2	(D)	1.1	12.9
TENNESSEE . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ALABAMA . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . . .	18	6	1.1	6.9	.9	1.7	5.3	14.7	5.0	20.9	(D)	(NA)	(NA)
ARKANSAS . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . .	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . .	110	30	4.9	39.7	3.6	7.4	22.6	100.2	48.1	146.1	5.7	3.2	46.1
MOUNTAIN DIVISION . . . . .	13	4	.5	4.5	.4	.8	2.7	10.7	5.6	15.6	2.0	(NA)	(NA)
COLORADO . . . . .	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . .	97	26	4.4	35.2	3.2	6.6	19.9	89.5	42.5	130.5	3.7	3.1	45.6
WASHINGTON . . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
OREGON . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA . . . . .	86	21	3.5	29.1	2.6	5.2	15.9	70.5	34.9	102.7	3.3	2.8	43.6
3842-- SURGICAL APPLIANCES AND SUPPLIES													
UNITED STATES . . . . .	873	257	44.0	365.9	29.9	58.3	198.1	930.7	536.2	1 456.1	47.5	35.2	527.2
NORTHEAST REGION . . . . .	257	84	17.4	163.5	10.9	21.4	81.3	357.1	197.7	561.4	20.2	16.1	249.7
NEW ENGLAND DIVISION . . . . .	62	23	3.1	22.5	2.4	4.7	14.5	46.9	28.1	74.9	2.6	3.9	41.0
MASSACHUSETTS . . . . .	28	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
RHODE ISLAND . . . . .	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT . . . . .	20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	24.8
MIDDLE ATLANTIC DIVISION . . . . .	195	61	14.4	141.0	8.5	16.8	66.8	310.3	169.6	486.4	17.6	12.2	208.7
NEW YORK . . . . .	103	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY . . . . .	34	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
PENNSYLVANIA . . . . .	58	21	6.3	58.4	3.6	7.1	27.5	107.1	65.7	178.1	3.0	4.4	60.7
NORTH CENTRAL REGION . . . . .	238	80	11.5	97.0	7.7	15.2	54.2	282.7	168.7	439.5	11.6	10.0	162.5
EAST NORTH CENTRAL DIVISION . . . . .	173	59	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.6	146.0
OHIO . . . . .	56	23	1.8	11.5	1.3	2.6	7.2	22.4	19.0	41.2	(D)	1.5	15.9
INDIANA . . . . .	23	7	1.3	10.8	.9	1.8	7.5	38.1	20.0	56.1	(D)	.5	6.2
ILLINOIS . . . . .	52	16	5.1	51.0	3.1	6.0	25.6	159.8	92.2	243.1	5.8	4.9	103.1
MICHIGAN . . . . .	25	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN . . . . .	17	5	.3	2.0	.2	.4	1.3	4.2	3.1	7.2	.1	CC	(D)
WEST NORTH CENTRAL DIVISION . . . . .	65	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	16.5
MINNESOTA . . . . .	22	8	.7	6.2	.5	1.1	3.3	15.5	7.6	22.8	.6	.6	9.2
MISSOURI . . . . .	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.5
SOUTH DAKOTA . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . .	210	44	10.0	64.4	7.7	15.0	40.3	205.8	111.7	314.0	8.9	6.0	70.7
SOUTH ATLANTIC DIVISION . . . . .	115	26	5.1	31.7	3.9	7.4	19.2	84.0	57.4	140.0	3.4	3.0	34.2
DELAWARE . . . . .	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA . . . . .	17	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA . . . . .	15	5	.5	2.7	.4	.7	1.6	5.4	3.5	8.7	.5	35.2	527.2
FLORIDA . . . . .	41	3	.4	2.5	.3	.5	1.3	6.6	3.7	10.0	(D)	AA	(D)
EAST SOUTH CENTRAL DIVISION . . . . .	37	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY . . . . .	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TENNESSEE . . . . .	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
WEST SOUTH CENTRAL DIVISION . . . . .	58	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
TEXAS . . . . .	39	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
<b>3842-- SURGICAL APPLIANCES AND SUPPLIES-- CONTINUED</b>													
WEST REGION. . . . . E1	168	49	3.1	41.1	3.5	6.7	22.2	85.0	58.2	141.3	6.8	3.1	44.4
MOUNTAIN DIVISION. . . . .	28	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
COLORADO. . . . . 10	10	5	.5	4.0	.3	.6	1.8	5.6	3.9	9.7	(D)	AA	(D)
PACIFIC DIVISION. . . . . E1	140	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	38.4
CALIFORNIA. . . . . E1	122	38	4.1	33.3	2.8	5.3	18.1	70.1	49.7	117.9	(D)	2.7	37.3
<b>3843-- DENTAL EQUIPMENT AND SUPPLIES</b>													
UNITED STATES. . . . .	429	107	12.4	110.0	8.5	16.6	58.3	262.3	159.8	409.2	14.9	10.2	141.0
NORTHEAST REGION. . . . .	136	39	5.4	47.8	3.7	7.4	26.5	122.3	81.0	195.1	8.6	5.7	75.9
NEW ENGLAND DIVISION. . . . .	15	3	.6	5.3	.4	.7	2.5	10.1	11.3	21.7	.4	.7	7.7
CONNECTICUT. . . . . 5	5	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
MIDDLE ATLANTIC DIVISION. . . . .	121	36	4.9	42.6	3.3	6.7	24.0	112.3	69.7	173.4	8.2	4.9	65.0
NEW YORK. . . . . 73	73	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY. . . . . 25	25	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
PENNSYLVANIA. . . . . 23	23	11	1.8	12.1	1.4	2.7	7.8	35.7	16.6	49.2	1.2	2.1	25.9
NORTH CENTRAL REGION. . . . .	102	31	3.1	29.8	2.1	4.0	14.5	64.4	40.1	104.2	1.5	2.5	35.2
EAST NORTH CENTRAL DIVISION. . . . .	78	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	31.7
OHIO. . . . . 22	22	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	8.7
INDIANA. . . . . 8	8	3	.3	1.9	.2	.4	1.1	4.2	1.7	5.9	(D)	(NA)	(NA)
ILLINOIS. . . . . E1	37	11	1.2	11.8	.8	1.6	5.6	26.5	16.4	43.1	.5	1.1	16.2
MICHIGAN. . . . . 7	7	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
WEST NORTH CENTRAL DIVISION. . . . .	24	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	3.6
IOWA. . . . . 7	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	50	11	1.0	10.1	.7	1.6	5.2	20.3	10.4	30.3	1.0	.6	11.0
SOUTH ATLANTIC DIVISION. . . . .	30	7	.8	7.9	.5	1.1	3.7	16.4	8.1	24.2	.9	.5	9.6
DELAWARE. . . . . 3	3	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
NORTH CAROLINA. . . . . 3	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . . E2	141	26	2.8	22.2	1.9	3.6	12.1	55.3	28.3	79.6	3.8	1.4	18.9
MOUNTAIN DIVISION. . . . . E1	20	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
COLORADO. . . . . 4	4	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
PACIFIC DIVISION. . . . . E2	121	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OREGON. . . . . 12	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . . E2	104	20	2.0	16.2	1.3	2.5	8.6	42.4	22.3	61.0	(D)	.9	13.6
<b>3851-- OPHTHALMIC GOODS</b>													
UNITED STATES. . . . .	499	125	26.7	183.5	20.6	39.7	129.9	416.5	180.0	568.2	17.2	25.6	286.4
NORTHEAST REGION. . . . .	198	63	19.9	139.5	15.2	29.5	100.3	320.4	130.5	426.3	11.0	17.9	205.4
NEW ENGLAND DIVISION. . . . .	50	24	9.5	62.4	7.0	13.4	47.0	175.4	69.2	226.2	6.2	6.4	93.6
NEW HAMPSHIRE. . . . . 2	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
VERMONT. . . . . 1	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
MASSACHUSETTS. . . . . 30	30	13	7.0	45.7	4.9	9.4	35.0	133.5	43.3	159.7	5.1	4.8	72.6
RHODE ISLAND. . . . . 10	10	5	1.3	8.8	1.1	2.2	6.0	18.4	12.2	28.6	.9	CC	(D)
CONNECTICUT. . . . . 6	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
MIDDLE ATLANTIC DIVISION. . . . .	148	39	10.4	77.1	8.2	16.1	53.3	145.0	61.3	200.1	4.8	11.5	111.8
NEW YORK. . . . . 92	92	26	8.4	63.7	6.6	12.9	43.5	113.9	46.4	155.0	3.5	9.1	85.9
NEW JERSEY. . . . . 22	22	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	8.8
PENNSYLVANIA. . . . . E1	34	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	17.2
NORTH CENTRAL REGION. . . . . E2	126	29	2.9	19.9	2.2	4.2	12.7	39.3	21.6	59.7	2.7	3.2	31.8
EAST NORTH CENTRAL DIVISION. . . . . E2	90	14	1.7	13.0	1.3	2.4	7.7	23.6	14.0	37.0	1.3	EE	(D)
OHIO. . . . . E1	23	3	.3	2.1	.3	.5	1.4	4.2	2.4	6.2	.1	.3	2.3
INDIANA. . . . . 12	12	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
ILLINOIS. . . . . E2	30	6	.8	6.7	.6	1.1	3.3	12.1	8.3	20.5	.9	.9	8.4
MICHIGAN. . . . . E4	20	3	.2	1.8	.2	.3	1.2	3.2	1.7	4.8	.3	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . . E2	36	15	1.2	6.9	1.0	1.8	5.0	15.7	7.6	22.6	1.3	EE	(D)
MINNESOTA. . . . . E2	10	6	.5	3.2	.5	.8	2.5	8.7	3.9	12.2	.6	.6	10.4
MISSOURI. . . . . 14	14	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	4.1
SOUTH REGION. . . . . E1	91	17	2.8	16.1	2.3	4.3	11.7	41.2	17.7	57.7	2.2	3.4	39.5
SOUTH ATLANTIC DIVISION. . . . .	42	12	2.4	13.9	2.0	3.8	10.3	36.8	16.6	52.1	2.0	2.8	33.3
MARYLAND. . . . . 6	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
VIRGINIA. . . . . E1	4	1	.2	.8	.2	.2	.5	1.0	.3	1.4	(Z)	CC	(D)
SOUTH CAROLINA. . . . . 1	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8B	(D)
FLORIDA. . . . . 19	19	7	1.2	6.7	.9	1.7	4.6	18.9	9.4	27.3	1.5	.8	11.3
WEST SOUTH CENTRAL DIVISION. . . . . E3	37	5	.3	1.9	.3	.5	1.2	3.9	1.0	4.9	.1	.6	5.3
TEXAS. . . . . E3	19	4	.2	1.3	.2	.3	.9	2.6	.5	3.1	.1	.5	4.6
WEST REGION. . . . . E3	84	16	1.1	8.0	.9	1.7	5.2	15.6	10.2	24.5	1.2	.9	9.6
MOUNTAIN DIVISION. . . . . E4	19	4	.2	1.2	.2	.3	.9	2.5	1.7	4.2	(D)	.2	1.4
PACIFIC DIVISION. . . . . E2	65	12	.9	6.7	.7	1.4	4.3	13.1	8.5	20.4	(D)	.8	8.2
WASHINGTON. . . . . 6	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . . E4	51	9	.6	4.2	.5	.9	2.8	8.1	4.4	11.9	.9	.5	5.6

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972												1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture	
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3861-- PHOTOGRAPHIC EQUIPMENT														
UNITED STATES. . . . .	623	221	94.7	1 108.3	55.2	105.3	540.8	4 081.0	1 453.0	5 579.4	201.8	94.9	2 480.7	
NORTHEAST REGION . . . . .	243	82	69.2	868.4	38.6	73.9	414.2	3 377.6	1 019.4	4 450.4	154.2	67.5	2 034.2	
NEW ENGLAND DIVISION . . . . .	54	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
MASSACHUSETTS. . . . .	30	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
RHODE ISLAND . . . . .	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
CONNECTICUT. . . . . E1	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.5	
MIDDLE ATLANTIC DIVISION . . . . .	189	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
NEW YORK . . . . .	112	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
NEW JERSEY . . . . .	52	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	72.3	
PENNSYLVANIA . . . . .	25	8	.7	6.7	.5	1.0	4.1	20.9	11.6	33.0	2.0	.4	5.1	
NORTH CENTRAL REGION . . . . .	158	65	14.6	134.0	9.4	18.1	70.3	340.4	249.9	591.8	12.8	15.1	260.3	
EAST NORTH CENTRAL DIVISION. . . . .	129	54	11.9	109.7	7.7	14.8	57.8	252.3	189.6	440.7	9.4	FF	(D)	
OHIO . . . . . E2	22	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
INDIANA . . . . .	8	5	1.2	11.0	.9	1.6	6.1	44.5	31.3	75.4	1.0	1.2	46.5	
ILLINOIS . . . . .	77	35	9.5	89.5	6.1	11.6	46.7	185.2	144.2	329.4	7.3	10.7	153.8	
MICHIGAN . . . . . E1	14	3	.3	2.1	.2	.4	1.4	5.0	3.2	8.0	.4	.3	3.2	
WISCONSIN. . . . . E2	8	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.7	
WEST NORTH CENTRAL DIVISION. . . . .	29	11	2.7	24.2	1.7	3.3	12.5	88.1	60.2	151.1	3.4	EE	(D)	
MINNESOTA. . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
MISSOURI . . . . .	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
NEBRASKA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
KANSAS . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
SOUTH REGION . . . . .	67	23	3.4	32.3	2.1	4.0	15.8	145.5	67.7	216.1	7.8	5.9	87.5	
SOUTH ATLANTIC DIVISION. . . . .	44	16	2.6	24.7	1.7	3.1	12.5	108.4	49.5	160.5	4.6	EE	(D)	
MARYLAND . . . . . E3	7	4	.2	2.5	.2	.3	1.6	5.2	1.4	6.6	(Z)	(NA)	(NA)	
VIRGINIA . . . . .	5	3	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
WEST VIRGINIA. . . . .	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
NORTH CAROLINA . . . . .	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
FLORIDA. . . . .	13	3	.6	4.5	.4	.6	1.7	3.8	5.8	9.5	1.2	AA	(D)	
EAST SOUTH CENTRAL DIVISION. . . . .	5	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
KENTUCKY . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
WEST SOUTH CENTRAL DIVISION. . . . .	18	5	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
LOUISIANA. . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
TEXAS. . . . . E2	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.8	
WEST REGION. . . . .	155	51	7.5	73.6	5.1	9.3	40.5	217.6	116.1	321.1	26.9	6.4	98.7	
MOUNTAIN DIVISION. . . . .	16	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	1.3	
COLORADO . . . . .	9	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
ARIZONA. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
PACIFIC DIVISION . . . . .	139	46	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	98.1	
OREGON . . . . .	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
CALIFORNIA . . . . .	129	43	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3873-- WATCHES, CLOCKS, AND WATCHCASES														
UNITED STATES. . . . .	202	99	30.8	230.4	24.7	47.6	153.8	466.0	482.0	937.2	18.8	35.2	392.9	
NORTHEAST REGION . . . . .	115	64	14.8	128.0	10.8	21.1	76.6	233.9	265.5	497.8	9.8	(NA)	(NA)	
NEW ENGLAND DIVISION . . . . .	26	15	7.3	61.2	5.6	10.8	38.0	117.1	101.4	217.7	6.2	(NA)	(NA)	
MASSACHUSETTS. . . . .	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
RHODE ISLAND . . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
CONNECTICUT. . . . .	13	10	4.5	39.2	3.1	6.1	21.1	81.9	82.0	164.2	5.0	(NA)	(NA)	
MIDDLE ATLANTIC DIVISION . . . . .	89	49	7.5	56.7	5.2	10.2	38.7	116.8	164.1	280.2	3.6	(NA)	(NA)	
NEW YORK . . . . .	71	36	5.7	53.3	3.9	6.8	30.5	96.3	138.4	234.5	2.9	(NA)	(NA)	
NEW JERSEY . . . . .	11	8	1.0	7.8	.8	1.5	5.1	11.3	9.9	21.7	.5	(NA)	(NA)	
PENNSYLVANIA . . . . .	7	5	.7	5.6	.5	1.0	3.0	9.2	15.8	24.0	.1	(NA)	(NA)	
NORTH CENTRAL REGION . . . . .	36	19	5.1	43.4	4.2	8.0	29.4	76.6	78.7	153.8	4.4	(NA)	(NA)	
EAST NORTH CENTRAL DIVISION. . . . .	32	16	5.0	42.5	4.1	7.8	28.8	74.6	76.6	150.2	3.1	(NA)	(NA)	
INDIANA. . . . .	4	2	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
ILLINOIS . . . . .	17	7	3.0	27.4	2.3	4.6	17.5	43.7	60.4	102.1	2.0	(NA)	(NA)	
MICHIGAN . . . . .	7	5	.5	4.1	.4	.8	2.7	8.1	5.2	13.3	.2	(NA)	(NA)	
WISCONSIN. . . . .	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
SOUTH REGION . . . . .	26	15	10.7	57.9	9.6	18.3	47.0	153.4	135.0	280.7	4.4	(NA)	(NA)	
SOUTH ATLANTIC DIVISION. . . . .	12	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
VIRGINIA . . . . .	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
NORTH CAROLINA . . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
GEORGIA. . . . .	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
EAST SOUTH CENTRAL DIVISION. . . . .	7	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
KENTUCKY . . . . .	1	1	8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
TENNESSEE . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
ALABAMA . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
MISSISSIPPI. . . . .	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
WEST SOUTH CENTRAL DIVISION. . . . .	7	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
ARKANSAS . . . . .	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
TEXAS. . . . .	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	

See footnotes on next page.

(Footnotes for table 2)

E1--10 to 19 percent	E3--30 to 39 percent	E5--50 to 59 percent	E7--70 to 79 percent	E9--90 to 99 percent
E2--20 to 29 percent	E4--40 to 49 percent	E6--60 to 69 percent	E8--80 to 89 percent	E0--100 percent

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols.

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

(See appendix. Explanation of Terms)

Item	Surgical and medical instruments (SIC 3841)	Surgical appliances and supplies (SIC 3842)	Dental equipment and supplies (SIC 3843)	Ophthalmic goods (SIC 3851)	Photographic equipment and supplies (SIC 3861)	Watches, clocks, and watchcases (SIC 3873)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT	90	79	93	88	95	91
COVERAGE RATIO <sup>1</sup> . . . . .	82	90	94	97	96	94
ESTABLISHMENTS, TOTAL . . . . . NUMBER	506	873	429	499	623	202
WITH 1 TO 19 EMPLOYEES. . . . .	307	616	322	374	402	103
WITH 20 TO 99 EMPLOYEES. . . . .	121	173	80	76	136	52
WITH 100 EMPLOYEES OR MORE. . . . .	78	84	27	49	85	47
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000	34.5	44.0	12.4	26.7	94.7	30.8
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS	282.4	365.9	110.0	183.5	1 108.3	230.4
PRODUCTION WORKERS:						
AVERAGE FOR YEAR. . . . . 1,000	24.3	29.9	8.5	20.6	55.2	24.7
MARCH . . . . .	23.8	29.0	8.3	19.4	53.7	23.6
MAY . . . . .	24.2	29.7	8.5	20.4	54.0	24.3
AUGUST. . . . .	24.3	30.0	8.5	20.8	56.8	24.8
NOVEMBER. . . . .	25.1	31.0	8.6	22.0	56.5	26.0
MAN-HOURS . . . . . MILLIONS	48.0	58.3	16.6	39.7	105.3	47.6
JANUARY-MARCH . . . . .	11.7	14.2	4.1	9.5	25.8	11.4
APRIL-JUNE. . . . .	12.1	14.8	4.2	10.1	26.0	11.8
JULY-SEPTEMBER. . . . .	11.4	14.1	4.1	9.6	25.9	11.1
OCTOBER-DECEMBER. . . . .	12.7	15.2	4.2	10.7	27.6	12.5
WAGES . . . . . MILLION DOLLARS	161.2	198.1	58.3	129.9	540.8	153.8
COST OF MATERIALS, ETC., TOTAL. . . . .	347.9	536.2	159.8	180.0	1 453.0	482.0
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . .	296.9	423.6	123.8	152.8	1 297.1	470.7
COST OF RESALES . . . . .	38.5	87.3	30.2	17.4	82.4	4.7
FUELS CONSUMED . . . . .	2.0	2.9	.8	3.4	22.0	1.5
PURCHASED ELECTRIC ENERGY . . . . .	5.1	6.2	1.6	3.0	15.1	3.3
CONTRACT WORK . . . . .	5.3	16.3	3.5	3.4	36.3	1.8
VALUE OF SHIPMENTS, INCLUDING RESALES . . . . .	961.9	1 456.1	409.2	568.2	5 579.4	937.2
VALUE OF RESALES. . . . .	63.0	136.1	45.8	23.7	133.3	5.3
VALUE ADDED BY MANUFACTURE. . . . .	630.0	930.7	262.3	416.5	4 081.0	466.0
MANUFACTURERS' INVENTORIES:						
BEGINNING OF YEAR, TOTAL. . . . .	177.5	235.2	75.3	125.3	691.5	175.5
FINISHED PRODUCTS . . . . .	75.5	88.0	27.4	56.1	268.3	62.2
WORK IN PROCESS . . . . .	49.1	78.8	29.6	45.3	208.5	79.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	52.9	68.4	18.3	23.8	214.7	35.4
END OF YEAR, TOTAL. . . . .	203.6	266.1	91.9	160.3	739.6	187.1
FINISHED PRODUCTS . . . . .	81.7	98.6	35.6	70.4	176.3	78.1
WORK IN PROCESS . . . . .	59.0	79.0	34.4	57.2	255.2	80.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	62.9	88.6	22.0	32.7	308.2	33.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . .	44.1	49.2	15.3	18.7	205.5	19.8
NEW PLANT AND EQUIPMENT, TOTAL. . . . .	42.0	47.5	14.9	17.2	201.8	18.8
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .	16.0	16.5	6.3	3.3	39.5	7.7
NEW MACHINERY AND EQUIPMENT . . . . .	26.0	31.0	8.6	13.9	162.3	11.1
USED PLANT AND EQUIPMENT. . . . .	2.1	1.6	.4	1.5	3.7	.9

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972

Item	Establishments (number)	All employees		Production workers			Value added by manufecture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3841-- SURGICAL AND MEDICAL INSTRUMENTS											
ESTABLISHMENTS, TOTAL. . . . .	506	34.5	282.4	24.3	48.0	161.2	630.0	347.9	961.9	42.0	203.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	167	.3	2.2	.2	.4	1.2	5.1	2.7	8.2	.4	1.6
5 TO 9 EMPLOYEES . . . . . E6	81	.5	4.5	.4	.7	2.4	9.1	4.9	14.2	.6	2.6
10 TO 19 EMPLOYEES . . . . . E1	59	.8	7.4	.5	1.0	3.6	16.4	9.4	25.5	.6	4.3
20 TO 49 EMPLOYEES . . . . .	70	2.2	18.4	1.6	3.0	9.8	41.6	21.2	62.4	1.9	11.9
50 TO 99 EMPLOYEES . . . . .	51	3.8	31.3	2.6	5.2	16.5	66.6	36.9	101.6	4.1	19.2
100 TO 249 EMPLOYEES . . . . .	42	6.8	59.7	4.5	8.9	30.1	130.1	79.1	204.1	11.4	49.2
250 TO 499 EMPLOYEES . . . . .	20	7.1	56.6	5.4	10.9	36.6	126.8	79.1	203.3	6.3	37.0
500 TO 999 EMPLOYEES . . . . .	13	12.9	102.2	9.2	18.0	23.8	234.2	114.6	342.6	16.9	77.9
1,000 TO 2,499 EMPLOYEES . . . . .	3	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	180	.6	4.6	.5	.9	2.4	10.4	5.8	16.2	.7	3.6
3842-- SURGICAL APPLIANCES AND SUPPLIES											
ESTABLISHMENTS, TOTAL. . . . .	873	44.0	365.9	29.9	58.3	198.1	940.0	526.9	1 456.1	47.5	266.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	330	.6	4.7	.5	.8	2.6	12.8	7.2	19.9	.6	3.4
5 TO 9 EMPLOYEES . . . . . E6	159	1.0	8.4	.7	1.4	4.6	18.0	8.8	26.7	.9	4.4
10 TO 19 EMPLOYEES . . . . . E2	127	1.7	13.4	1.2	2.2	7.4	26.4	15.5	41.7	.9	5.6
20 TO 49 EMPLOYEES . . . . . E2	118	3.7	26.4	2.7	5.1	15.5	53.0	33.0	84.4	2.6	13.3
50 TO 99 EMPLOYEES . . . . .	55	3.7	25.3	2.7	5.4	15.2	50.0	38.7	88.2	2.6	16.4
100 TO 249 EMPLOYEES . . . . .	44	6.9	51.9	4.8	9.4	27.5	110.6	80.6	187.3	7.5	36.2
250 TO 499 EMPLOYEES . . . . .	19	6.2	42.9	4.6	9.0	26.3	85.4	64.4	145.8	5.3	23.5
500 TO 999 EMPLOYEES . . . . .	15	10.3	81.7	7.3	14.4	46.8	246.5	120.3	364.9	27.1	72.1
1,000 TO 2,499 EMPLOYEES . . . . .	6	9.9	111.3	5.3	10.6	52.1	328.1	167.8	497.2	(0)	91.3
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	346	1.1	7.7	.8	1.4	4.1	19.5	11.2	30.7	.8	5.8
3843-- DENTAL EQUIPMENT AND SUPPLIES											
ESTABLISHMENTS, TOTAL. . . . .	429	12.4	110.0	8.5	16.6	58.3	262.3	159.8	409.2	14.9	91.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	205	.3	2.3	.3	.4	1.3	5.9	3.7	9.7	.2	2.1
5 TO 9 EMPLOYEES . . . . . E6	67	.5	3.7	.3	.6	1.9	11.2	7.4	17.6	.4	3.5
10 TO 19 EMPLOYEES . . . . . E1	50	.7	6.2	.5	1.0	3.8	12.9	8.6	20.9	.5	3.1
20 TO 49 EMPLOYEES . . . . . E1	56	1.8	14.0	1.3	2.4	7.8	27.4	20.3	47.2	1.3	7.8
50 TO 99 EMPLOYEES . . . . .	24	1.7	14.3	1.1	2.1	6.6	40.2	17.2	55.4	2.9	11.2
100 TO 249 EMPLOYEES . . . . .	16	2.5	25.5	1.5	3.0	11.2	60.0	45.5	98.7	3.0	18.1
250 TO 499 EMPLOYEES . . . . .	7	5.0	44.1	3.5	7.1	25.9	104.8	57.0	159.6	6.4	46.1
500 TO 999 EMPLOYEES . . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	191	.5	3.5	.4	.6	1.9	8.7	5.4	14.1	.3	3.3
3851-- OPHTHALMIC GOODS											
ESTABLISHMENTS, TOTAL. . . . . E1	499	26.7	183.5	20.6	39.7	129.9	416.5	180.0	568.2	17.2	160.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	215	.4	2.8	.4	.7	2.0	6.3	2.8	9.1	.3	2.0
5 TO 9 EMPLOYEES . . . . . E6	103	.7	4.8	.5	1.1	3.4	9.4	4.3	13.6	.6	2.7
10 TO 19 EMPLOYEES . . . . . E2	56	.8	5.1	.6	1.1	3.3	9.3	4.1	13.5	.4	2.1
20 TO 49 EMPLOYEES . . . . . E1	50	1.6	10.8	1.2	2.2	6.7	20.8	12.7	32.2	2.0	5.6
50 TO 99 EMPLOYEES . . . . .	26	2.0	12.1	1.6	3.0	8.2	24.8	14.4	38.8	1.8	7.8
100 TO 249 EMPLOYEES . . . . .	29	4.5	26.3	3.6	6.8	18.1	63.8	38.8	97.4	2.4	18.5
250 TO 499 EMPLOYEES . . . . . E1	13	4.4	30.4	3.7	7.1	21.9	68.5	32.5	98.8	2.3	22.3
500 TO 999 EMPLOYEES . . . . .	5	12.4	91.0	9.1	17.6	66.2	213.5	70.5	265.0	7.5	99.2
2,500 EMPLOYEES OR MORE. . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	229	.8	5.1	.7	1.3	3.7	10.7	4.8	15.5	.6	3.7
3861-- PHOTOGRAPHIC EQUIP. AND SUPPLIES											
ESTABLISHMENTS, TOTAL. . . . .	623	94.7	1 108.3	55.2	105.3	540.8	4 081.0	1 453.0	5 579.4	201.8	739.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	242	.4	4.6	.3	.5	2.1	14.9	5.3	20.1	.8	3.0
5 TO 9 EMPLOYEES . . . . . E6	84	.6	5.5	.4	.7	2.8	13.4	6.6	19.6	.7	2.9
10 TO 19 EMPLOYEES . . . . . E2	76	1.1	9.9	.7	1.3	5.0	19.5	13.0	33.0	1.2	5.2
20 TO 49 EMPLOYEES . . . . . E1	81	2.5	22.7	1.6	3.0	12.1	59.0	40.0	98.6	3.0	13.1
50 TO 99 EMPLOYEES . . . . .	55	3.8	34.0	2.4	4.7	17.2	81.7	63.0	142.2	5.7	25.0
100 TO 249 EMPLOYEES . . . . .	43	6.4	52.4	4.3	8.3	28.2	148.8	106.6	257.4	9.0	40.8
250 TO 499 EMPLOYEES . . . . .	15	5.1	53.1	3.4	6.1	28.4	167.5	85.2	248.4	20.3	52.6
500 TO 999 EMPLOYEES . . . . .	12	7.9	76.0	4.9	9.3	36.3	245.4	178.7	426.5	11.1	78.4
1,000 TO 2,499 EMPLOYEES . . . . .	11	67.0	850.2	37.4	71.4	408.8	3 330.9	954.6	4 333.7	150.0	518.7
2,500 EMPLOYEES OR MORE. . . . .	4	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	219	.5	5.4	.3	.5	2.4	17.3	5.9	23.3	.9	3.7

See footnotes at end of table.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3873-- WATCHES, CLOCKS, AND WATCHCASES											
ESTABLISHMENTS, TOTAL. . . . .	202	30.8	230.4	24.7	47.6	153.8	466.0	482.0	937.2	18.8	187.1
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E8	59	.1	.7	.1	.1	.4	.7	1.3	2.8	.2	.6
5 TO 9 EMPLOYEES . . . . . E7	25	.2	1.4	.1	.2	1.0	3.4	2.7	6.1	.1	1.1
10 TO 19 EMPLOYEES . . . . . E1	19	.2	1.8	.2	.3	1.0	4.0	6.7	10.6	.1	2.1
20 TO 49 EMPLOYEES . . . . .	37	1.2	9.5	1.0	1.8	5.8	21.8	28.7	46.9	2.6	12.6
50 TO 99 EMPLOYEES . . . . . E2	15	1.0	8.3	.8	1.6	5.9	12.6	8.3	20.8	1.1	4.1
100 TO 249 EMPLOYEES . . . . .	16	2.6	19.6	1.9	3.6	11.8	34.6	41.8	80.4	.6	21.8
250 TO 499 EMPLOYEES . . . . .	16	5.9	47.9	4.4	8.6	28.6	94.2	88.2	183.4	4.6	49.3
500 TO 999 EMPLOYEES . . . . .	6	3.3	23.9	2.7	5.4	17.0	48.5	34.4	80.6	4.4	15.0
1,000 TO 2,499 EMPLOYEES . . . . .	8	16.3	117.1	13.5	25.8	82.2	246.2	269.9	505.7	5.0	80.6
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	63	.2	1.3	.2	.3	.8	3.4	3.0	6.4	.1	1.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization--the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization--the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3841	SURGICAL AND MEDICAL INSTRUMENTS										
	ENTIRE INDUSTRY . . . . .	506	34.5	282.4	24.3	48.0	161.1	630.0	347.9	961.9	42.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	472	27.7	226.4	19.5	38.8	128.6	516.0	283.0	786.9	31.8
3842	SURGICAL APPLIANCES AND SUPPLIES										
	ENTIRE INDUSTRY . . . . .	873	44.0	365.9	29.9	58.3	198.1	930.7	536.2	1 456.1	47.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	829	27.9	216.4	19.9	38.9	123.4	498.1	264.0	750.8	25.8
38421	SURGICAL AND ORTHOPEDIC APPLIANCES AND SUPPLIES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	288	26.9	228.2	18.2	35.7	123.7	611.6	310.4	919.0	27.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	258	17.3	141.4	12.1	23.7	80.1	326.3	154.3	477.9	17.5
38423	PERSONAL INDUSTRIAL SAFETY DEVICES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	75	9.7	74.3	6.7	12.9	40.8	145.3	111.9	253.2	4.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	59	5.6	38.6	4.3	8.3	23.2	77.0	61.5	136.0	2.8
38424	ELECTRONIC HEARING AIDS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	13	2.1	19.1	1.4	2.8	9.4	45.8	21.2	63.8	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	13	2.1	19.1	1.4	2.8	9.4	45.8	21.2	63.8	1.9

See footnotes at end of table.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972—Continued

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3843	OPHTHALMIC EQUIPMENT AND SUPPLIES										
	ENTIRE INDUSTRY . . . . .	429	12.4	110.0	8.5	16.6	58.3	262.5	159.8	409.2	14.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	421	10.6	92.7	7.3	14.2	48.0	224.4	139.1	352.9	10.4
3851	OPHTHALMIC GOODS										
	ENTIRE INDUSTRY . . . . .	499	26.6	183.5	20.6	39.7	129.9	416.5	180.0	568.2	17.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	493	16.0	106.9	12.9	24.6	72.9	246.6	124.0	355.4	11.6
38511	OPHTHALMIC FRONTS AND TEMPLES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	43	5.1	34.4	4.1	8.1	23.2	74.7	39.7	108.1	2.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	38	4.7	30.7	3.8	7.3	21.0	69.5	36.7	99.9	2.3
38512	OPHTHALMIC FOCUS LENSES, INCLUDING CONTACT LENSES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	87	9.9	74.3	7.7	15.3	52.0	127.5	54.0	193.9	9.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	78	3.0	19.7	2.6	5.0	15.2	41.4	17.2	57.4	3.1
38513	ALL OTHER OPHTHALMIC GOODS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	45	4.9	34.8	3.7	7.0	21.9	102.1	57.1	153.8	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	37	4.0	29.5	3.0	5.7	17.8	85.2	43.6	122.7	2.5
3861	PHOTOGRAPHIC EQUIPMENT AND SUPPLIES										
	ENTIRE INDUSTRY . . . . .	623	94.7	1 108.3	55.2	105.3	540.8	4 081.0	1 453.0	5 579.4	201.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	593	87.0	1 028.5	50.4	95.0	498.8	3 856.2	1 335.9	5 241.1	179.0
38611	STILL PICTURE EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	65	20.7	240.8	13.1	24.0	119.3	562.8	253.7	816.7	33.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	51	7.5	64.7	5.3	8.9	38.3	142.1	113.8	265.6	4.4
38612	PHOTOCOPYING EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	17.0	171.5	10.3	21.5	99.3	1 252.9	390.9	1 689.4	26.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
38613	MOTION PICTURE EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	39	6.8	66.5	4.1	7.9	31.8	89.7	92.0	183.7	3.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	27	1.7	14.8	1.1	2.4	8.5	31.6	22.3	53.2	1.7
38614	MICROFILM, BLUE-, BROWN-, AND WHITE-PRINT EQUIP. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	.8	7.1	.5	1.0	3.8	15.5	11.6	26.9	.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	14	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
38615	PHOTOGRAPHIC SENSITIZED FILM AND PLATES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	41	37.7	507.4	19.6	36.9	225.4	1 751.0	458.2	2 200.0	111.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	30	4.7	49.6	2.7	4.0	22.4	283.6	115.6	400.3	15.7
38616	SENSITIZED PHOTO PAPER, CLOTH, SILVER HALIDE TYPE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	6	.4	3.9	.3	.5	1.9	8.4	6.2	15.3	.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	6	.4	3.9	.3	.5	1.9	8.4	6.2	15.3	.1
38617	SENSITIZED PHOTO PAPER, CLOTH, EXC. SILVER HALIDE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	41	4.5	39.6	3.1	5.6	23.0	178.2	132.3	312.7	9.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	33	3.1	30.6	2.1	3.9	17.6	115.2	94.3	209.4	7.9
38618	PREPARED PHOTOGRAPHIC CHEMICALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	27	1.1	10.5	.6	1.0	4.4	14.1	23.0	37.2	2.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	23	.8	8.6	.4	.7	3.2	9.8	16.2	25.9	2.6
38619	X-RAY FILM (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3873	WATCHES, CLOCKS, AND WATCHCASES										
	ENTIRE INDUSTRY . . . . .	202	30.8	230.4	24.7	47.6	153.8	466.0	482.0	937.2	18.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	125	25.5	188.8	20.2	39.2	124.8	394.8	426.3	810.0	15.9
38731	CLOCKS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	53	18.5	101.1	11.8	22.9	71.1	197.1	139.7	327.2	11.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	41	7.7	50.7	6.4	12.5	35.3	117.1	78.9	186.7	8.5
38734	WATCHES WITH IMPORTED MOVEMENTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	16	4.1	43.0	2.4	4.9	20.5	87.7	143.9	235.4	1.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	14	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
38735	WATCHES WITH DOMESTIC MOVEMENTS AND ALL PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	13	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	10	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
38737	WATCHCASES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	28	3.2	25.3	2.7	5.3	19.6	39.5	31.6	69.1	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	24	1.5	12.7	1.3	2.6	10.4	19.5	12.6	31.7	1.6

(0) Withheld to avoid disclosing figures for individual companies.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C (percent)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F (percent)
		A	B	C	D	E	F	G	H	I
3841	Surgical and medical instruments.....1972..	961.9	802.9	85.2	73.7	90	984.2	802.9	181.3	82
	.....1967..	475.4	375.4	38.1	61.9	91	542.9	375.4	167.5	69
3842	Surgical appliances and supplies.....1972..	1,456.1	1,027.6	266.7	161.9	79	1,142.1	1,027.6	114.5	90
	.....1967..	837.9	593.7	150.2	94.0	80	691.3	593.7	97.6	86
3843	Dental equipment and supplies.....1972..	409.2	331.3	26.2	51.7	93	352.3	331.3	21.0	94
	.....1967..	220.5	190.2	11.9	18.4	94	201.8	190.2	11.6	94
3851	Ophthalmic goods.....1972..	568.2	465.0	71.5	31.7	88	483.5	465.0	18.5	97
	.....1967..	426.0	360.1	50.9	15.0	88	377.5	360.1	17.4	95
3861	Photographic equipment and supplies.....1972..	5,579.4	5,046.9	255.4	277.1	95	5,255.4	5,046.9	208.5	96
	.....1967..	3,664.5	3,047.9	145.3	471.3	95	3,138.0	3,047.9	90.1	97
3873	Watches, clocks, and watchcases.....1972..	937.2	825.1	75.2	36.9	91	871.1	825.1	46.0	94
	.....1967..	802.1	642.3	120.2	39.6	84	708.3	642.3	66.0	91

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 5A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Surgical and medical instruments (SIC 3841)	Surgical appliances and supplies (SIC 3842)	Dental equipment and supplies (SIC 3843)	Ophthalmic goods (SIC 3851)	Photographic equipment and supplies (SIC 3861)	Watches, clocks, and watchcases (SIC 3873)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	961.9	1,456.1	409.2	568.2	5,579.4	995.3	(X)
38410	Surgical and medical instruments and apparatus.....	984.2	802.9	(over 2)	(5-10)	(over 2)	-	-	130.0
3842- 38421	Surgical appliances and supplies. Surgical, orthopedic, and prosthetic appliances and supplies.....	1,142.1	(over 2)	1,027.6	(under 2)	(over 2)	-	-	85.7
38423	Personal industrial safety devices.....	782.0	(over 2)	700.4	(under 2)	-	-	-	64.0
38424	Electronic hearing aids.....	226.0	(under 2)	194.1	(under 2)	(over 2)	-	-	20.6
38420	Surgical appliances and supplies, n.s.k.....	50.0	-	49.5	-	-	-	-	.5
38430	Dental equipment and supplies....	84.1	-	83.6	-	-	-	-	.5
3851- 38511 38512	Ophthalmic goods..... Ophthalmic fronts and temples.. Ophthalmic focus lenses, including contact lenses.....	352.3	(under 2)	(over 2)	331.3	-	-	-	7.0
38513	All other ophthalmic goods.....	483.5	(under 2)	(under 2)	-	465.0	(over 2)	-	(over 2)
38510	Ophthalmic goods, n.s.k.....	111.5	-	(under 2)	-	(D)	-	-	-
3861- 38611 38612 38613	Photographic equipment and supplies..... Still picture equipment..... Photocopying equipment..... Motion picture equipment.....	134.5	(under 2)	(under 2)	-	128.4	10-20	-	(over 2)
		194.8	(under 2)	(under 2)	-	185.4	-	-	(over 2)
		42.7	-	-	-	(D)	-	-	(over 2)
		5,255.4	(under 2)	(under 2)	-	-	5,046.9	(20-50)	181.8
		616.5	-	-	-	-	564.6	(20-50)	(over 2)
		1,455.1	(under 2)	-	-	-	(D)	-	(over 2)
		191.6	-	(under 2)	-	-	181.2	-	(over 2)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Surgical and medical instruments (SIC 3841)	Surgical appliances and supplies (SIC 3842)	Dental equipment and supplies (SIC 3843)	Ophthalmic goods (SIC 3851)	Photographic equipment and supplies (SIC 3861)	Watches, clocks, and watchcases (SIC 3873)	Other industries
	Shipments and miscellaneous receipts--Continued								
3861-	Photographic equipment and supplies--Continued								
38614	Microfilming, blueprinting, brownprinting, and water-printing equipment.....	137.5	-	-	-	-	122.7	-	14.8
38615	Photographic sensitized film and plates, except X-ray.....	1,427.6	-	-	-	-	(D)	-	(over 2)
38616	Sensitized photographic paper and cloth, silver halide type.	376.4	-	-	-	-	(D)	-	(over 2)
38617	Sensitized photographic paper and cloth, other than silver halide type.....	306.2	-	-	-	-	260.8	-	45.4
38618	Prepared photographic chemicals	286.2	-	-	-	-	254.2	-	14.2
38619	X-ray film.....	297.6	-	-	-	-	(D)	-	(over 2)
38610	Photographic equipment and supplies, n.s.k.....	160.7	-	-	-	-	157.1	-	3.6
3873-	Watches, clocks, and watchcases..	871.1	-	-	-	-	-	825.1	46.0
38731	Clocks.....	320.0	-	-	-	-	-	284.8	35.2
38734	Watches with imported movements	192.1	-	-	-	-	-	192.1	-
38735	Watches with domestic movements and parts for all watches and clocks.....	285.4	-	-	-	-	-	(D)	(over 2)
38737	Watchcases.....	52.9	-	-	-	-	-	52.9	-
38730	Watches, clocks, and watchcases, n.s.k.....	20.7	-	-	-	-	-	(D)	(over 2)
	Other product shipments by 4-digit product group:								
2295	Coated fabrics, not rubberized.	(X)	(2-5)	(under 2)	-	-	-	-	(X)
2399	Fabricated textile products, n.e.c.....	(X)	-	3.6	-	-	-	-	(X)
2514	Metal household furniture.....	(X)	(2-5)	-	-	-	-	-	(X)
2522	Metal office furniture.....	(X)	(2-5)	-	-	-	-	-	(X)
2531	Public building and related furniture.....	(X)	(2-5)	-	-	-	-	-	(X)
2599	Furniture and fixtures, n.e.c..	(X)	(10-20)	-	-	-	(under 2)	-	(X)
2621	Papermills, exc. building paper	(X)	-	-	-	-	(5-10)	-	(X)
2641	Paper glazing and coating.....	(X)	-	(5-10)	-	-	(10-20)	-	(X)
2645	Die-cut paper and board.....	(X)	-	-	-	-	(10-20)	(2-5)	(X)
2647	Sanitary paper products.....	(X)	-	(5-10)	-	-	(under 2)	-	(X)
2649	Converted paper products, n.e.c.	(X)	-	-	-	-	(10-20)	-	(X)
2751	Commercial printing, letterpress	(X)	-	-	-	(under 2)	(over 2)	-	(X)
2752	Commercial printing, lithographic.....	(X)	-	-	-	-	(over 2)	-	(X)
2754	Commercial printing, gravure...	(X)	-	(under 2)	-	-	(over 2)	-	(X)
2833	Medicinals and botanicals.....	(X)	(20-50)	(under 2)	-	-	-	-	(X)
2834	Pharmaceutical preparations....	(X)	(under 2)	(20-50)	-	-	-	-	(X)
2844	Toilet preparations.....	(X)	-	(20-50)	-	-	-	-	(X)
2869	Industrial organic chemicals, n.e.c.....	(X)	-	-	-	-	(5-20)	-	(X)
2899	Chemical preparations, n.e.c...	(X)	-	-	-	-	(10-20)	-	(X)
3069	Fabricated rubber products, n.e.c.....	(X)	-	(5-10)	(under 2)	-	-	-	(X)
3079	Miscellaneous plastics products	(X)	(under 2)	(5-10)	(under 2)	(over 2)	(10-20)	(under 2)	(X)
3231	Products of purchased glass....	(X)	(under 2)	-	-	(under 2)	(under 2)	(under 2)	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	-	-	-	(10-20)	(X)
3489	Ordnance, and accessories, n.e.c.	(X)	-	-	-	-	-	(over 2)	(X)
3532	Mining machinery.....	(X)	-	(over 2)	-	-	-	-	(X)
3555	Printing trades machinery.....	(X)	-	-	-	-	(over 2)	-	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	(under 2)	(under 2)	(over 2)	-	-	(X)
3564	Blowers and fans.....	(X)	-	(over 2)	-	-	-	-	(X)
3569	General industrial machinery, n.e.c.....	(X)	-	(under 2)	(under 2)	-	(over 2)	-	(X)
3579	Office machines, n.e.c.....	(X)	-	-	-	-	(over 2)	(10-20)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$ million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Surgical and medical instruments (SIC 3841)	Surgical appliances and supplies (SIC 3842)	Dental equipment and supplies (SIC 3843)	Ophthalmic goods (SIC 3851)	Photographic equipment and supplies (SIC 3861)	Watches, clocks, and watchcases (SIC 3873)	Other industries
	Shipments and miscellaneous receipts--Continued								
	Other product shipments by 4-digit product group:								
3613	Switchgear and switchboard apparatus.....	(X)	-	-	-	-	-	(2-5)	(X)
3621	Motors and generators.....	(X)	-	-	-	-	-	(10-20)	(X)
3622	Industrial controls.....	(X)	-	-	-	-	-	(2-5)	(X)
3623	Welding apparatus, electric....	(X)	-	(2-5)	-	-	-	-	(X)
3634	Electric housewares and fans...	(X)	-	(over 2)	-	-	-	-	(X)
3643	Current-carrying wiring devices	(X)	-	-	-	-	(20-50)	-	(X)
3644	Noncurrent-carrying wiring devices.....	(X)	-	(over 2)	-	-	(5-10)	-	(X)
3648	Lighting equipment, n.e.c.....	(X)	-	(over 2)	-	-	-	-	(X)
3651	Radio and TV receiving sets....	(X)	-	-	-	-	(over 2)	-	(X)
3662	Radio and TV communication equipment.....	(X)	(under 2)	(5-10)	-	-	(20-50)	(under 2)	(X)
3679	Electronic components, n.e.c....	(X)	(under 2)	(under 2)	(over 2)	-	(under 2)	-	(X)
3693	X-ray apparatus and tubes.....	(X)	-	-	(over 2)	-	(2-5)	-	(X)
3714	Motor vehicles parts and accessories.....	(X)	-	(over 2)	-	-	-	-	(X)
3728	Aircraft equipment, n.e.c.....	(X)	-	6.4	-	-	(10-20)	-	(X)
3811	Engineering and scientific instruments.....	(X)	(5-10)	-	-	-	(2-5)	(5-10)	(X)
3823	Process control instruments....	(X)	(under 2)	(5-10)	-	-	-	(under 2)	(X)
3829	Measuring and controlling devices, n.e.c.....	(X)	(5-10)	(under 2)	-	-	(under 2)	(under 2)	(X)
3832	Optical instruments and lenses.	(X)	(under 2)	(under 2)	-	(over 2)	(5-10)	-	(X)
3911	Jewelry, precious metal.....	(X)	-	-	-	-	-	(10-20)	(X)
3964	Needles, pins, and fasteners...	(X)	-	-	-	-	(2-5)	-	(X)
	Miscellaneous receipts, total....	(X)	73.7	161.9	51.7	31.7	277.1	20.0	(X)
	Contract work.....	(X)	1.9	8.0	.1	(Z)	5.5	4.7	(X)
	Sales of scrap and refuse.....	(X)	.3	.3	1.9	1.2	2.9	2.0	(X)
	Installation.....	(X)	1.0	.2	-	(X)	(X)	(X)	(X)
	Research and development.....	(X)	.2	1.3	(Z)	2.7	(X)	(X)	(X)
	Repair work.....	(X)	5.7	12.2	2.4	(X)	36.9	4.1	(X)
	Other, except resales.....	(X)	1.6	3.8	1.5	4.1	98.5	3.9	(X)
	Resales.....	(X)	63.0	136.1	45.8	23.7	133.3	5.3	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries				
	Listing of the other industries with over \$2 million shipments of the primary product			Listing of the other industries with over \$2 million shipments of the primary product--Continued					
3841-	2515 Mattresses and bedsprings.....	(2-5)	3842-	3949 Sporting and athletic goods, n.e.c.....	(2-5)				
	2599 Furniture and fixtures, n.e.c.....	(2-5)							
	2831 Biological products.....	(5-10)	3843-	3679 Electronic components, n.e.c.....	(over 2)				
	2834 Pharmaceutical preparations.....	(50-100)							
	3421 Outlery.....	(2-5)	3861-	2621 Papermills, except building paper..	(2-5)				
	3494 Valves and pipe fittings.....	(2-5)		2641 Paper coating and glazing.....	(20-50)				
	3552 Textile machinery.....	(2-5)		2795 Lithographic platemaking services..	(2-5)				
				2899 Chemical preparations, n.e.c.....	(20-30)				
	3561 Pumps and pumping equipment.....	(2-5)		3579 Office machines, n.e.c.....	(20-50)				
	3589 Service industry machinery, n.e.c..	(5-10)		3662 Radio and TV communication equipment.....	17.5				
	3693 X-ray apparatus and tubes.....	(2-5)							
	3811 Engineering and scientific instruments.....	(2-5)		3811 Engineering and scientific instruments.....	(2-5)				
	3825 Instruments to measure electricity.	(2-5)		3825 Instruments to measure electricity.	(5-10)				
	3829 Measuring and controlling devices, n.e.c.....	(5-10)		3832 Optical instruments and lenses.....	(2-5)				
3842-	2297 Nonwoven fabrics.....	(2-5)		3944 Games, toys, and children's vehicles.....	(2-5)				
	2399 Fabricated textile products, n.e.c.....	(5-10)		3952 Lead pencils and art goods.....	(2-5)				
	2641 Paper coating and glazing.....	(20-50)	3873-	3579 Office machines, n.e.c.....	(2-5)				
	2834 Pharmaceutical preparations.....	(2-5)		3621 Motors and generators.....	(2-5)				
				3634 Electric housewares and fans.....	(2-5)				
	2844 Toilet preparations.....	(20-50)		3662 Radio and TV communication equipment.....	(2-5)				
	3079 Miscellaneous plastics products....	(5-10)		3679 Electronic components, n.e.c.....	(10-20)				
	3693 X-ray apparatus and tubes.....	(2-5)		3822 Environmental controls.....	(2-5)				
	3714 Motor vehicle parts and accessories.....	(2-5)							

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3841- --	SURGICAL AND MEDICAL INSTRUMENTS, TOTAL.....		(X)	984.2	(X)	542.9
38410 12	Surgical Instruments, Including Suture Needles, and Eye, Ear, Nose, and Throat Instruments.....		(X)	54.9	(X)	35.1
38410 31	Orthopedic instruments, such as bone drills and bone plates, excluding eye, ear, nose, and throat instruments.....		(X)	14.2	(X)	6.8
38410 51	Diagnostic apparatus, including such items as metabolism and blood pressure apparatus, ophthalmoscopes, otoscopes, and cystoscopes..		(X)	123.4	(X)	76.4
38410 63	Hypodermic syringes: Reusable.....	Million units.	1.6	5.6	4.8	8.4
38410 66	Disposable: Uniquely designed for prefilling.....	..do.....	(NA)	103.2	(NA)	44.5
38410 68	Other.....	..do.....				
38410 73	Hypodermic needles: Reusable.....	..do.....	(NA)	3.5	(NA)	4.1
38410 75	Disposable.....	..do.....	2,083.3	52.0	1,712.8	42.4
38410 83	Anesthesia apparatus and oxygen tents.....		(X)	53.9	(X)	24.8
38410 85	Other surgical and medical instruments, including transfusion equipment, blood donor kits, and veterinary instruments.....		(X)	367.3	(X)	164.5
38410 91	Operating room furniture, including tables, cases, cabinets, etc..		(X)	31.0	(X)	22.8
38410 93	Patient room furniture, including cabinets, over bed tables, dressers, etc., but excluding beds and chairs.....		(X)	40.8	(X)	27.4
38410 96	Other hospital furniture, excluding operating and patient room furniture, beds, and instruments, but including cases, tables, bassinets, chartracks, backrests, etc.....		(X)	58.9	(X)	56.3
38410 00	Surgical and medical instruments, n.e.c., for establishments with 10 employees or more. (See note.).....		(X)	59.3	(X)	23.1
38410 02	Surgical and medical instruments, n.e.c., for establishments with less than 10 employees. (See note.).....		(X)	16.2	(X)	5.5
3842- --	SURGICAL APPLIANCES AND SUPPLIES, TOTAL.....		(X)	1,142.1	(X)	691.3
38421 --	Surgical, Orthopedic, and Prosthetic Appliances and Supplies.....		(X)	782.0	(X)	475.0
38421 11	Orthopedic appliances (braces), including parts.....		(X)	24.4	(X)	17.6
38421 15	Sterilizers (hospital and surgical), excluding dental sterilizers.....		(X)	41.1	(X)	29.9
38421 22	Surgical dressings: Bandages, elastic.....	Mil. sq. yd..	(NA)	12.7		
38421 23	Bandages, other, including muslin, plaster of paris, etc., but excluding self-adhering bandages.....	..do.....	(NA)	13.7	(NA)	29.0
38421 24	Adhesive plaster, medicated and nonmedicated, including self-adhering bandages.....		(X)	88.0	(X)	83.3
38421 26	Gauze (absorbent and packing).....	Mil. sq. yd..	(NA)	( <sup>1</sup> )	(NA)	3.7
38421 27	Cotton, including cotton balls (sterile and nonsterile).....		(X)	33.9	(X)	15.6
38421 29	Other surgical dressings, including sponges, compresses, pads, etc.....		(X)	<sup>1</sup> 105.0	(X)	63.8
38421 31	Disposable surgical drapes, including O/B and O/R packs.....	Mil. sq. yd..	(NA)	(2)	(3)	(3)
38421 32	Disposable incontinent pads, bed pads, and adult diapers.....	..do.....				
38421 33	Sterile surgical sutures: Absorbable.....		(X)	65.8	(X)	43.4
38421 34	Nonabsorbable.....		(X)	55.1	(X)	27.8
38421 35	Artificial limbs (prosthetic), including parts.....		(X)	22.2	(X)	9.9
38421 38	Elastic stockings.....		(X)	9.5	(X)	10.0
38421 41	Elastic braces, suspensories, and other elastic supports.....		(X)	24.6	(X)	11.9
38421 45	Arch supports and other foot appliances.....		(X)	6.1	(X)	7.7
38421 61	Corn remover pads, bunion pads, etc.....		(X)	(2)	(3)	(3)
38421 65	Breathing devices, excluding anesthetic apparatus but including incubators, respirators, resuscitators, inhalators, etc.....		(X)	23.6	(X)	16.5
38421 71	Surgical corsets.....	1,000 dozen..	150.6	16.4	169.2	10.6
38421 98	Other surgical and orthopedic items not included in above categories (wheelchairs, splints, trusses, etc.).....		(X)	<sup>2</sup> 216.1	(X)	89.1
38421 00	Surgical, orthopedic, and prosthetic appliances and supplies, n.s.k.....		(X)	23.8	(X)	5.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3842- --	SURGICAL APPLIANCES AND SUPPLIES--Continued					
38423 --	Personal Industrial Safety Devices.....		(X)	226.0	(X)	144.4
38423 11	Respiratory protection equipment, including gas masks, abrasive masks, canister masks, etc.....		(X)	56.5	(X)	47.9
38423 31	Eye and face protection devices, including face shields, hoods, and welding helmets and masks, but excluding industrial goggles and eye protectors.....		(X)	37.8	(X)	17.9
38423 51	Protective clothing, except shoes.....		(X)	48.4	(X)	31.4
38423 61	First aid, snakebite and burn kits, both household and industrial types.....		(X)	10.9	(X)	8.2
38423 71	Other personal safety devices.....		(X)	65.8	(X)	36.8
38423 00	Personal industrial safety devices, n.s.k.....		(X)	6.6	(X)	2.1
38424 13	Electronic hearing aids, complete units.....	1,000 units...	445.0	50.0	360.1	40.9
38420 00	Surgical appliances and supplies, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	53.4	(X)	14.8
38420 02	Surgical appliances and supplies, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	30.7	(X)	16.3
3843- --	DENTAL EQUIPMENT AND SUPPLIES, TOTAL.....		(X)	352.3	(X)	201.8
	Dental metals:					
38430 11	Precious.....	1,000 troy oz.	839.9	54.4	1,121.4	32.0
38430 15	Nonprecious.....	..do.....	(NA)	3.4	1,765.8	4.1
38430 21	Dental alloys for amalgams.....	..do.....	1,713.6	5.8	3,222.3	6.1
	Teeth, excluding dentures:					
38430 31	Porcelain.....	Million units.	83.4	20.9	53.4	12.8
38430 35	Other, including resinous and plastic.....	..do.....			37.6	9.1
38430 41	Denture-base materials.....		(X)	14.2	(X)	5.3
38430 47	Dental professional equipment, including dental chairs, equipment units, cabinets, lights, etc.....		(X)	68.3	(X)	46.5
38430 51	Dental laboratory equipment, including furnaces, casting machines, lathes, benches, polishing units, flasks, blowpipes, presses, etc.		(X)	13.4	(X)	7.7
38430 57	Dental hand instruments (forceps and pliers, broaches, cutting instruments, etc.).....		(X)	21.5	(X)	12.4
38430 61	Burs, diamond points, abrasive points, wheels, disks, and similar tools for use with hand pieces.....		(X)	12.9	(X)	8.7
38430 71	Waxes, cements, dental gypsums, impression materials, and other consumable supplies, including low-fusing alloys.....		(X)	38.4	(X)	22.1
38430 81	Dental sterilizers.....		(X)	2.8	}	24.4
38430 98	Other dental products, excluding X-ray equipment.....		(X)	51.3		
38430 00	Dental equipment and supplies, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	30.9	(X)	2.9
38430 02	Dental equipment and supplies, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	14.1	(X)	7.7
3851- --	OPHTHALMIC GOODS, TOTAL.....		(X)	483.5	(X)	377.5
38511 --	Ophthalmic Fronts and Temples.....		(X)	111.5	(X)	84.2
	Fronts, finished (with or without decoration), and temples:					
38511 12	Gold filled fronts (full rimmed, semirimless, or rimless)....	Million units.	7.6	26.9	1.0	3.2
38511 14	Aluminum and other base metal fronts.....	..do.....	(NA)	3.2	1.1	2.8
38511 15	Plastic fronts.....	..do.....	16.6	27.0	21.7	29.3
38511 16	Combination fronts.....	..do.....	2.1	8.2	6.1	14.6
38511 17	Temples, all types.....	Million pairs.	28.2	39.6	34.8	30.7
38511 00	Ophthalmic fronts and temples, n.s.k.....		(X)	6.6	(X)	3.6
38512 --	Ophthalmic Focus Lenses, Including Contact Lenses.....	Million pairs.	(X)	134.5	60.6	134.2
38512 23	Contact lenses.....	..do.....	2.3	22.5	1.0	7.2
38512 25	Plastic single vision lenses.....	..do.....	(NA)	7.7	}	4.0
38512 27	Plastic multifocal lenses.....	..do.....	.6	3.4		
38512 31	Glass single vision lenses (ground and polished and molded blanks).....	..do.....	25.6	45.2	30.1	49.1
	Glass multifocal lenses (finished and semifinished and molded blanks):					
38512 41	Bifocals.....	..do.....	13.1	45.4	16.7	71.6
38512 43	Trifocals and double segments.....	..do.....	.8	5.2	1.5	2.1
38512 00	Ophthalmic focus lenses, including contact lenses, n.s.k.....		(X)	5.1	(X)	.3

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3851- --	OPHTHALMIC GOODS--Continued					
38513 --	All Other Ophthalmic Goods.....		(X)	194.8	(X)	124.3
38513 21	Centers, oxfords, parts, trims, etc.....		(X)	1.3	(X)	10.1
38513 31	Ophthalmic spectacles and eyeglasses (frames and mountings of all types when sold with corrective lenses inserted, with or without decoration).....	Million units.	(NA)	7.2	(NA)	10.3
38513 41	Industrial goggles, eye protectors, welding circles and plates, mountings, and parts.....		(X)	36.6	(X)	35.4
38513 51	Sun or glare glasses and sungoggles, ready-made.....	Million units.	34.9	93.9	50.2	52.6
38513 91	Nonfocus fashion tinted lenses, plastic and glass.....	do.....	(NA)	15.9		
38513 98	Other ophthalmic goods and accessories (sunglass frames, single readers and magnifiers, holders, gas mask inserts, etc.).....		(X)	32.8	(X)	15.5
38513 00	All other ophthalmic goods, n.s.k.....		(X)	7.1	(X)	.4
38510 00	Ophthalmic goods, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	27.2	(X)	26.3
38510 02	Ophthalmic goods, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	15.5	(X)	8.5
3861- --	PHOTOGRAPHIC EQUIPMENT AND SUPPLIES, TOTAL.....		(X)	5,255.4	(X)	3,138.0
38611 --	Still Picture Equipment.....		(X)	616.5	(X)	484.8
	Still cameras:					
	Hand-type cameras, excluding film, bulbs, batteries, etc.:					
38611 11	Suggested retail list price under \$30.....	1,000 units...	9,774.3	120.3		
38611 13	Suggested retail list price \$30 or more, but under \$80.....	do.....				
38611 15	Suggested retail list price \$80 or more:					
38611 17	Using film or paper, 35 mm. or under.....	do.....	3,896.0	122.7	10,732.9	137.7
	Using film or paper, over 35 mm., including sheet and pack film.....	do.....				
	Process cameras for photoengraving and photolithography, including value of stands and attachments when shipped with camera:					
38611 22	Horizontal types, including overhead, all sizes.....	do.....	4.8	9.8	2.3	4.6
38611 24	Vertical types, all sizes.....	do.....			1.9	1.6
38611 31	Other still cameras, including view and studio, designed primarily for tripod or stand, but excluding photocopying, microfilming, blueprinting, brownprinting, and whiteprinting.	do.....	(NA)	35.7	164.5	65.3
	Flash units, except built-in:					
	Electronic (stroboscopic):					
38611 42	Portable, battery operated.....	do.....				
38611 45	Studio type.....	do.....				
38611 47	Nonelectronic (using disposable flashbulb).....	do.....	1,165.9	10.5	1,142.6	9.2
38611 10	Photographic exposure meters, complete, except built-ins.....	do.....				
	Projectors with lenses of f/4.0 or faster, suggested list price \$25 or more:					
	Slide film:					
38611 61	List price \$25 to \$79.99.....	do.....	405.2	15.2	498.9	38.9
38611 65	List price \$80 or more.....	do.....	470.8	44.4		
38611 68	Strip film, including combination slide and strip.....	do.....	108.6	9.5	207.8	12.8
38611 69	Other, including overhead, opaque, etc.....	do.....	(NA)	20.8	103.7	16.8
	Still picture commercial-type finishing equipment:					
38611 73	Processing equipment, for film.....		(X)	49.2	(X)	52.0
38611 75	Processing equipment, for paper.....		(X)	21.8		
38611 79	All other processing equipment, including developing machines, continuous printing machines, and motor-operated print washers and dryers.....		(X)	40.4	(X)	35.7
38611 81	Enlargers <sup>5</sup> .....	1,000 heads...				
38611 91	Rebuilt still picture equipment.....		(NA)	5.7	25.3	5.0
38611 98	Other still picture equipment, parts, attachments, and accessories, including projectors with lenses not as fast as f/4.0 and/or with suggested retail list price less than \$25 and hand viewers (excluding lenses for sale separately and projection screens).....		(X)	105.3	(X)	105.2
38611 00	Still picture equipment, n.s.k.....		(X)	5.2	(X)	.1

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3861- --	PHOTOGRAPHIC EQUIPMENT AND SUPPLIES--Continued					
38612 --	Photocopying Equipment.....	1,000 units...	(NA)	1,455.1	(NA)	620.2
	Photocopying equipment primarily for producing copies 11 in. x 14 in. or smaller:					
	Suggested retail list price:					
38612 11	Less than \$100.....	...do.....	(6)	1,455.1	(6)	618.8
38612 13	\$100 to \$499.99.....	...do.....				
38612 16	\$500 to \$999.99.....	...do.....				
38612 18	\$1,000 to \$1,499.99.....	...do.....				
38612 19	\$1,500 and over.....	...do.....				
38612 23	Photocopying equipment primarily for producing copies larger than 11 in. x 14 in.....	...do.....				
38612 00	Photocopying equipment, n.s.k.....	.....			(X)	1.4
38613 --	Motion Picture Equipment.....		(X)	191.6	(X)	194.3
	8 mm. and 16 mm. motion picture equipment:					
	Cameras, excluding film, bulbs, batteries, etc., in outfits:					
38613 07	16 mm.....	1,000 units...	537.9	42.8	(7)	(7)
38613 15	8 mm.....	...do.....			(7)	(7)
	Projectors with lenses f/2.0 or faster, suggested retail list price \$25 or more:					
38613 27	16 mm., sound and silent.....	...do.....	70.0	29.7	781.0	734.8
38613 42	8 mm. sound.....	...do.....	88.1	13.9		
	8 mm. silent:					
38613 43	Less than \$100.....	...do.....	383.7	13.7		
38613 45	\$100 to \$174.99.....	...do.....	293.4	25.4	71,508.2	783.8
38613 47	\$175 and over.....	...do.....				
38613 52	Projection screens for motion picture and/or still projection.....	1,000 units...	1,073.9	14.9	1,371.4	15.4
38613 75	8 mm. and 16 mm. motion picture parts, attachments, accessories, and other 8 mm. and 16 mm. motion picture equipment, including sound recording (including projectors with lenses not as fast as f/2.0 and/or suggested retail list price under \$25 and hand viewers) (excluding lenses for sale separately and projection screens).....	.....	(X)	10.2	(X)	18.3
38613 61	Motion picture processing equipment, all types, including printing, developing, and drying machines, but excluding motion picture type equipment used for still picture work and interchangeable types.....	.....	(X)	18.2	(X)	23.8
	35 mm. and over motion picture equipment:					
38613 81	Cameras.....	1,000 units...	1.7	8.5	.7	4.3
38613 85	Projectors.....	...do.....			4.1	3.2
38613 98	35 mm. and over motion picture parts, attachments, acces- sories, and other 35 mm. and over motion picture equipment, including sound recording and studio equipment (excluding lenses for sale separately and processing equipment).....	.....	(X)	6.3	(X)	9.6
38613 00	Motion picture equipment, n.s.k.....	.....	(X)	8.0	(X)	1.2
38614 --	Microfilming, Blueprinting, Brownprinting, and Whiteprinting Equipment.....		(X)	137.5	(X)	53.6
38614 11	Microfilming equipment, including microfilm cameras, readers, printers, enlargers, and other special purpose equipment for microfilm use.....	.....	(X)	116.2	(X)	53.6
38614 21	Blueprinting, brownprinting, and whiteprinting (direct process type) equipment.....	.....	(X)	20.9		
38614 00	Micrographic equipment and supplies, n.s.k.....	.....	(X)	.4	-	-

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3861- --	PHOTOGRAPHIC EQUIPMENT AND SUPPLIES--Continued					
38615 --	Sensitized Photographic Film and Plates, Except X-Ray <sup>8 9</sup> .....	TSFSM (mm.) <sup>10</sup> .	(X)	1,427.6	(X)	886.8
38615 11	Motion picture black-and-white film, excluding microfilm:					
38615 17	35 mm. and over.....	...do.....				
38615 17	8 mm. and 16 mm. (reported in terms of 16 mm. linear feet) <sup>11</sup> ..	...do.....				
38615 32	Motion picture color film:					
38615 37	35 mm. and over.....	...do.....				
38615 37	8 mm. and 16 mm. (reported in terms of 16 mm. linear feet) <sup>11</sup> ..	...do.....				
38615 57	Still picture black-and-white film, except X-ray film:					
38615 63	Amateur-type roll film.....	...do.....				
38615 63	Sheet film, pack film, and long lengths of still picture roll film other than graphic arts film (including rolls more than 25 feet in length or more than 30 mm. in width).....	...do.....				
38615 64	Graphic arts film for lithographic, rotogravure, photoengraving, and silk screen printing.....	...do.....				
38615 65	Photoengraving plates and slides, excluding presensitized printing plates.....	...do.....				
38615 72	Presensitized printing plates.....	...do.....				
38615 79	Other film (microfilm, aerofilm, etc.).....	...do.....				
38615 81	Still picture color film.....	...do.....				
38615 00	Sensitized photographic film and plates, n.s.k.....	...do.....	(X)	7.9		
38616 --	Sensitized Photographic Paper and Cloth, Silver Halide Type.....		(X)	376.4	(X)	238.7
38616 11	Designed for continuous-tone reproduction (photofinishing, portraiture, etc.), roll and sheet form.....	TSFSM (mm.) <sup>10</sup> .				
38616 15	Designed for line reproduction, graphic arts, etc., other than photocopy processes and oscillograph recording.....	...do.....				
38616 21	Designed for oscillograph and other types of instrumentation recording processes.....	...do.....				
38616 25	Designed for photocopy processes, including diffusion transfer, dye transfer, etc.....	...do.....				
38616 00	Sensitized photographic paper and cloth, silver halide type, n.s.k.....	...do.....	(X)	2.6	-	-
38617 --	Sensitized Photographic Paper and Cloth, Other Than Silver Halide Type.....		(X)	306.2	(X)	193.5
38617 11	Blueprint type.....	TSYSM (mm.) <sup>12</sup> .	28.5	4.9	(NA)	4.2
38617 12	Dry:					
38617 14	Microfilm.....	...do.....	15.1	9.9		
38617 14	Full size.....	...do.....	487.5	31.1	651.3	50.5
38617 16	Semimoist:					
38617 17	Microfilm.....	...do.....				
38617 17	Full size.....	...do.....				
38617 18	Diazo paper reproducibles.....	...do.....				
38617 19	All other diazo materials.....	...do.....				
38617 21	Brownprinting type.....	...do.....				
38617 31	Sensitized paper for photocopy processes:					
38617 32	Electrostatic.....	...do.....				
38617 32	Heat sensitive.....	...do.....				
38617 39	Other types, including sensitized paper, film, and cloth for all other processes.....	...do.....				
38617 00	Sensitized photographic paper and cloth, other than silver halide type, n.s.k.....	...do.....	(X)	.9	(X)	2.6
38618 11	Prepared photographic chemicals (developers, fixers, toners, and other chemicals specifically prepared and packaged for use in photography).....		(X)	286.2	(X)	148.3
38619 --	X-Ray Film <sup>9</sup> .....	TSFSM (mm.) <sup>10</sup> .	759.9	297.6	482.0	197.9
38619 41	Medical.....	...do.....	721.9	264.8	439.5	164.8
38619 43	Dental.....	...do.....			6.5	9.4
38619 45	Industrial.....	...do.....	38.0	32.8	36.0	23.7
38610 00	Photographic equipment and supplies, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	137.4	(X)	107.4
38610 02	Photographic equipment and supplies, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	23.3	(X)	12.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3873- --	WATCHES, CLOCKS, AND WATCHCASES, TOTAL.....		(X)	871.1	(X)	708.3
38731 --	Clocks.....		(X)	320.0	(X)	276.1
	Electric clocks, complete, frequency motor (synchronous or subsynchronous, except as specified in code 38731 34):					
38731 11	Alarm (excluding clock timers and timing mechanisms).....	Million units.	15.9	63.3	14.0	29.6
38731 12	Household, except alarm: Wall.....	..do.....				
38731 13	All other, including chime and strike, occasional, desk, and mantel.....	..do.....				
38731 15	Commercial, including office, factory, and school.....	..do.....	.9	9.2	.4	3.1
	Spring wound and weight operated clocks, except automobile clocks and as specified in code 38731 36:					
38731 21	Alarm.....	..do.....	8.8	50.0	9.1	29.1
38731 23	Household and commercial, except alarm, including chime and strike, kitchen, desk, mantel, and wall.....	..do.....				
38731 25	Battery powered clocks.....	..do.....				
38731 28	Timers and switch clocks having hands and dials for telling time of day, including electric and spring wound.....	..do.....	4.9	21.0	(NA)	36.5
38731 34	Other clocks, electric, complete (tower, street, master, magnet operated secondary clocks, chronometers, and automotive clocks, etc.).....	..do.....	(NA)	29.5		
38731 36	Other nonelectric clocks, complete (tower, street, master, magnet operated secondary clocks, chronometers, and nonelectric automotive clocks, etc.).....	..do.....	-	-		
38731 51	Clock movements, electric, complete, but not cased for timepiece use, including clocks for clock radios.....	..do.....	3.8	11.3	8.6	18.6
38731 55	Nonelectric clock movements, complete, but not cased for timepiece use.....	..do.....				
	Timing mechanisms not for timepiece use (including elapsed time indicators, delay timers, program timers, etc.) and mechanisms for recording and controlling instruments, parking meters, driving mechanisms, metronomes, and other devices (excluding time recording and time stamp machines):					
	Electric:					
38731 62	Military timing mechanisms.....	..do.....	5.4	17.2	5.9	66.0
38731 63	Household timing mechanisms.....	..do.....	(NA)	49.9	5.2	18.4
38731 64	Commercial timing mechanisms.....	..do.....	3.1	36.6	2.2	33.6
38731 65	Spring wound.....	..do.....	1.8	6.1	2.6	5.9
38731 00	Clocks, n.s.k.....	..do.....	(X)	15.3	(X)	6.1
38734 --	Watches With Imported Movements.....		(X)	192.1	(X)	190.6
	Jeweled lever escapement, excluding battery powered:					
	Men's wristwatches:					
38734 13	Under 17 jewels.....	Million units.	1.1	12.1	1.1	10.0
38734 15	17 jewels.....	..do.....	3.0	69.4	3.3	60.4
38734 19	Over 17 jewels.....	..do.....			.3	4.1
	Women's wristwatches:					
38734 23	Under 17 jewels.....	..do.....	.7	6.4	.8	7.1
38734 25	17 jewels.....	..do.....	4.1	85.0	3.7	70.8
38734 29	Over 17 jewels.....	..do.....	.3	4.0	1.2	8.0
38734 39	Other, including pocket, lapel, etc.....	..do.....				
38734 62	Pin level escapement, all types (excluding travel and automobile clocks, etc., with watch movements).....	..do.....	(NA)	12.2	1.9	27.2
38734 65	Battery powered.....	..do.....				
38734 00	Watches with imported movements, n.s.k.....	..do.....	(X)	3.0	(X)	3.0
38735 --	Watches With Domestic Movements and Parts for All Watches and Clocks.....		(X)	285.4	(X)	165.0
	Jeweled lever escapement type watches, excluding battery powered:					
	Men's wristwatches.....	Million units.	1.0	19.9	.6	10.0
38735 15	Women's wristwatches.....	..do.....			4.1	49.4
38735 61	Other watches with domestic movements, including pocket watches (jeweled or pin lever), pin lever wristwatches (men's and women's), and battery powered watches of all types.....	..do.....				
	Clock and watch parts, except watch crystals.....				(X)	90.3
38735 81	Clock cases and clock parts, except timing motors.....		(X)	263.8		14.5
38735 87	Watch movements, complete, for sale separately (excluding those purchased and resold in same condition).....	Million units.				
38735 89	Watch parts for sale separately, except watchcases, and watch crystals, excluding interplant transfers and those purchased and resold in same condition.....	..do.....				
38735 00	Watches with domestic movements and parts for all watches and clocks, n.s.k.....	..do.....	(X)	1.7	(X)	.8

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3873- --	WATCHES, CLOCKS, AND WATCHCASES--Continued					
38737 --	Watchcases.....		(X)	52.9	(X)	44.3
	For jeweled watch movements:					
	Men's wristwatch cases:					
38737 11	Karat gold and platinum.....	1,000 units...	339.3	8.5	395.0	7.1
38737 13	Gold filled.....	...do.....	818.3	4.2	361.0	3.5
38737 15	Rolled goldplate and sterling silver, including rolled goldplate with steel back.....	...do.....	1,470.5	10.2	8,121.5	14.1
38737 19	Other metals.....	...do.....				
	Women's wristwatch cases:					
38737 21	Karat gold and platinum.....	...do.....	442.7	9.1	562.3	6.8
38737 23	Gold filled.....	...do.....	448.8	2.7	119.3	.6
38737 25	Rolled goldplate and sterling silver, including rolled goldplate with steel back.....	...do.....	3,563.4	7.5	1,915.7	4.0
38737 29	Other metals.....	...do.....			1,117.4	1.5
	For nonjeweled or pinlever watch movements:					
	Wristwatch cases:					
38737 51	Gold filled, rolled goldplate, and sterling silver (including rolled goldplate with steel back).....	...do.....	943.0	6.2	-	-
38737 59	Other metals.....	...do.....			(NA)	2.1
38737 65	Pocket and other watchcases, all qualities, for jeweled, nonjeweled, or pinlever watch movements.....	...do.....	(X)	4.5	(X)	4.6
38737 00	Watchcases, n.s.k.....					
38730 00	Watches, clocks, and watchcases, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	14.3	(X)	29.1
38730 02	Watches, clocks, and watchcases, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	6.4	(X)	3.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available. <sup>r</sup>Revised.

<sup>1</sup>Product code 38421 26, Gauze (absorbent and packing), is included with 38421 29 in order to avoid disclosure of individual companies' operations.

<sup>2</sup>Product codes 38421 31, 38421 32, and 38421 61 are included with 38421 98 in order to avoid disclosure of individual companies' operations.

<sup>3</sup>These products were not collected separately in the 1967 Census of Manufactures.

<sup>4</sup>Source: Annual Survey of Manufactures unpublished data.

<sup>5</sup>Quantity figures include heads shipped separately, as well as complete units. Value figures include the value of heads shipped separately, stands shipped separately, and complete units shipped.

<sup>6</sup>The number of units shipped, including leased machines, totaled 370.0 thousand in 1967. The value shown includes, for some companies, rental receipts rather than the value of machines produced during the year. The quantity figure for 1972 is not available.

<sup>7</sup>Product code 38613 07 has been combined with product code 38613 27, and product code 38613 15 has been combined with product codes 38613 42 through 38613 47 to avoid disclosing figures for individual companies.

<sup>8</sup>Includes an indeterminate amount of duplication resulting from shipments of film producers for further manufacturing process.

<sup>9</sup>Product classes 38615 and 38619 have been redefined effective with 1972. Previously, both of these classes were included in the single class 38615.

<sup>10</sup>Represents total square feet of sensitized material (in millions).

<sup>11</sup>Motion picture film, amateur roll film, and other film were combined to avoid disclosing operations of individual companies. Motion picture film was reported in linear feet by width, and has been converted to TSFSM. Amateur roll film and other film were collected in TSFSM.

<sup>12</sup>Represents total square yards of sensitized material (in millions).

<sup>13</sup>Product codes 38617 18 and 38617 19 are new codes for 1972. No comparable data are available for 1967.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
<b>SURGICAL, ORTHOPEDIC, AND PROSTHETIC APPLIANCES AND SUPPLIES (38421)</b>			<b>PERSONAL INDUSTRIAL SAFETY DEVICES (38423)-- Continued</b>		
United States.....	782.0	475.1	South Region.....	32.8	11.9
Northeast Region.....	266.1	170.2	South Atlantic Division.....	FF	CC
New England Division.....	53.7	33.7	Delaware.....	CC	CC
New Hampshire.....	AA	( <sup>1</sup> )	North Carolina.....	EE	AA
Massachusetts.....	6.4	CC	Georgia.....	BB	( <sup>1</sup> )
Rhode Island.....	CC	BB	East South Central Division.....	3.2	2.1
Connecticut.....	FF	23.8	Kentucky.....	AA	AA
Middle Atlantic Division.....	212.3	136.5	Tennessee.....	AA	( <sup>1</sup> )
New York.....	36.8	35.0	West South Central Division.....	BB	AA
New Jersey.....	131.0	GG	Arkansas.....	BB	AA
Pennsylvania.....	44.5	FF	West Region.....	38.3	22.1
North Central Region.....	256.6	187.3	Mountain Division.....	BB	( <sup>1</sup> )
East North Central Division.....	187.5	144.3	Colorado.....	BB	( <sup>1</sup> )
Ohio.....	27.1	21.7	Pacific Division.....	FF	FF
Indiana.....	31.4	12.5	California.....	33.1	FF
Illinois.....	118.0	93.3	Hawaii.....	BB	( <sup>1</sup> )
Michigan.....	8.1	EE	<b>ELECTRONIC HEARING AIDS (38424)</b>		
Wisconsin.....	2.8	CC	United States.....	50.0	(NA)
West North Central Division.....	69.2	43.0	Northeast Region.....	CC	(NA)
Minnesota.....	FF	EE	New England Division.....	AA	(NA)
Missouri.....	FF	21.4	Massachusetts.....	AA	(NA)
South Dakota.....	EE	( <sup>1</sup> )	Middle Atlantic Division.....	CC	(NA)
Nebraska.....	1.0	( <sup>1</sup> )	New York.....	BB	(NA)
South Region.....	186.2	82.1	Pennsylvania.....	BB	(NA)
South Atlantic Division.....	70.6	36.1	North Central Region.....	38.1	(NA)
Maryland.....	2.2	( <sup>1</sup> )	East North Central Division.....	FF	(NA)
West Virginia.....	AA	( <sup>1</sup> )	Illinois.....	FF	(NA)
North Carolina.....	9.3	3.1	West North Central Division.....	EE	(NA)
South Carolina.....	FF	FF	Minnesota.....	EE	(NA)
Georgia.....	BB	( <sup>1</sup> )	West Region.....	BB	(NA)
Florida.....	6.5	( <sup>1</sup> )	Mountain Division.....	BB	(NA)
East South Central Division.....	FF	EE	Arizona.....	BB	(NA)
Kentucky.....	FF	EE	<b>OPHTHALMIC FRONTS AND TEMPLES (38511)</b>		
Tennessee.....	EE	2.2	United States.....	111.5	84.2
Alabama.....	AA	( <sup>1</sup> )	Northeast Region.....	94.8	61.1
Mississippi.....	BB	( <sup>1</sup> )	New England Division.....	34.2	17.9
West South Central Division.....	GG	FF	Massachusetts.....	EE	EE
Texas.....	GG	FF	Rhode Island.....	EE	BB
West Region.....	73.0	35.4	Middle Atlantic Division.....	60.6	43.3
Mountain Division.....	7.4	6.2	New York.....	46.6	33.5
Colorado.....	CC	AA	New Jersey.....	EE	8.0
Utah.....	AA	BB	North Central Region.....	3.2	AA
Pacific Division.....	65.6	29.3	East North Central Division.....	AA	( <sup>1</sup> )
Oregon.....	AA	( <sup>1</sup> )	West North Central Division.....	AA	1.4
California.....	GG	28.2	Kansas.....	AA	AA
<b>PERSONAL INDUSTRIAL SAFETY DEVICES (38423)</b>			South Region.....	11.8	19.5
United States.....	226.0	144.4	South Atlantic Division.....	EE	EE
Northeast Region.....	116.5	80.2	Maryland.....	CC	CC
New England Division.....	29.5	24.0	Florida.....	BB	CC
Massachusetts.....	8.5	9.0	West Region.....	1.6	AA
Rhode Island.....	EE	CC	Pacific Division.....	AA	AA
Connecticut.....	CC	CC	<b>OPHTHALMIC FOCUS LENSES, INCLUDING CONTACT LENSES (38512)</b>		
Middle Atlantic Division.....	87.0	56.2	United States.....	134.5	134.2
New York.....	21.9	11.3	Northeast Region.....	78.1	72.7
New Jersey.....	4.6	4.6	New England Division.....	44.3	GG
Pennsylvania.....	60.5	40.3	Vermont.....	CC	CC
North Central Region.....	38.5	30.2	Massachusetts.....	FF	FF
East North Central Division.....	28.8	26.4			
Ohio.....	10.6	BB			
Illinois.....	CC	12.5			
Michigan.....	CC	7.9			
Wisconsin.....	BB	( <sup>1</sup> )			
West North Central Division.....	9.7	3.8			
Missouri.....	CC	BB			
South Dakota.....	BB	(NA)			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OPHTHALMIC FOCUS LENSES, INCLUDING CONTACT LENSES (38512)--Continued			STILL PICTURE EQUIPMENT (38611)--Continued		
Northeast Region--Continued			North Central Region.....	94.9	GG
Middle Atlantic Division.....	33.8	EE	East North Central Division.....	62.9	( <sup>1</sup> )
New York.....	FF	EE	Ohio.....	AA	( <sup>1</sup> )
Pennsylvania.....	CC	CC	Illinois.....	57.5	54.1
North Central Region.....	20.6	22.2	Wisconsin.....	BB	3.9
East North Central Division.....	10.0	7.6	West North Central Division.....	32.0	EE
Ohio.....	BB	1.3	Minnesota.....	FF	FF
Indiana.....	BB	BB	Missouri.....	AA	( <sup>1</sup> )
Illinois.....	BB	( <sup>1</sup> )	Kansas.....	BB	AA
Michigan.....	AA	( <sup>1</sup> )	South Region.....	42.9	FF
West North Central Division.....	10.6	14.6	South Atlantic Division.....	EE	CC
Minnesota.....	7.4	10.6	Virginia.....	CC	CC
Missouri.....	BB	3.3	South Carolina.....	BB	BB
South Region.....	30.0	34.8	Florida.....	BB	AA
South Atlantic Division.....	FF	30.5	East South Central Division.....	BB	( <sup>1</sup> )
Maryland.....	BB	( <sup>1</sup> )	Kentucky.....	BB	( <sup>1</sup> )
Virginia.....	AA	CC	West South Central Division.....	FF	FF
South Carolina.....	CC	CC	Arkansas.....	FF	FF
Florida.....	EE	EE	West Region.....	49.8	82.4
West South Central Division.....	BB	BB	Mountain Division.....	AA	AA
Texas.....	2.1	BB	Pacific Division.....	FF	GG
West Region.....	5.8	4.5	Washington.....	AA	( <sup>1</sup> )
Mountain Division.....	1.2	( <sup>1</sup> )	Oregon.....	FF	FF
Pacific Division.....	4.6	4.1	California.....	EE	FF
Oregon.....	BB	AA	MOTION PICTURE EQUIPMENT (38613)		
California.....	1.4	2.8	United States.....	191.6	194.3
ALL OTHER OPHTHALMIC GOODS (38513)			Northeast Region.....	84.5	70.9
United States.....	194.8	124.3	New England Division.....	10.0	CC
Northeast Region.....	167.6	99.7	New Hampshire.....	BB	( <sup>1</sup> )
New England Division.....	119.0	59.0	Massachusetts.....	BB	( <sup>1</sup> )
New Hampshire.....	BB	( <sup>1</sup> )	Connecticut.....	BB	CC
Vermont.....	AA	( <sup>1</sup> )	Middle Atlantic Division.....	74.4	GG
Massachusetts.....	88.0	59.0	New York.....	GG	60.7
Rhode Island.....	EE	CC	New Jersey.....	BB	AA
Connecticut.....	EE	CC	North Central Region.....	66.7	85.0
Middle Atlantic Division.....	48.6	40.6	East North Central Division.....	GG	83.8
New York.....	FF	23.4	Ohio.....	BB	AA
New Jersey.....	CC	4.3	Indiana.....	CC	CC
Pennsylvania.....	9.2	13.0	Illinois.....	GG	74.8
North Central Region.....	17.3	19.4	Michigan.....	BB	AA
East North Central Division.....	13.9	12.8	West North Central Division.....	BB	1.2
Ohio.....	AA	( <sup>1</sup> )	Minnesota.....	AA	( <sup>1</sup> )
Illinois.....	11.8	11.1	South Region.....	BB	BB
West North Central Division.....	3.4	6.6	South Atlantic Division.....	BB	BB
Minnesota.....	AA	AA	West Region.....	FF	FF
Missouri.....	BB	4.3	Pacific Division.....	37.3	FF
South Region.....	BB	( <sup>1</sup> )	Oregon.....	CC	BB
South Atlantic Division.....	BB	( <sup>1</sup> )	California.....	FF	28.5
Maryland.....	AA	( <sup>1</sup> )	MICROFILMING, BLUEPRINTING, BROWNPRINTING, AND WATERPRINTING EQUIPMENT (38614)		
Georgia.....	AA	( <sup>1</sup> )	United States.....	137.5	53.6
Florida.....	AA	( <sup>1</sup> )	Northeast Region.....	87.3	37.1
West Region.....	BB	4.6	New England Division.....	BB	AA
Pacific Division.....	2.1	BB	Massachusetts.....	AA	AA
California.....	BB	AA	Connecticut.....	2.6	( <sup>1</sup> )
STILL PICTURE EQUIPMENT (38611)			Middle Atlantic Division.....	GG	FF
United States.....	616.5	484.8	New York.....	GG	FF
Northeast Region.....	428.9	270.9	New Jersey.....	BB	CC
New England Division.....	GG	22.5	Pennsylvania.....	AA	( <sup>1</sup> )
Massachusetts.....	GG	EE	North Central Region.....	44.2	EE
Connecticut.....	BB	( <sup>1</sup> )	East North Central Division.....	EE	CC
Middle Atlantic Division.....	GG	248.4	Illinois.....	EE	CC
New York.....	GG	229.7	Wisconsin.....	8.3	( <sup>1</sup> )
New Jersey.....	FF	EE	West North Central Division.....	FF	CC
Pennsylvania.....	7.5	( <sup>1</sup> )	Minnesota.....	FF	CC

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
MICROFILMING, BLUEPRINTING, BROWNPRINTING, AND WATERPRINTING EQUIPMENT (38614)--Continued			CLOCKS (38731)		
South Region.....	3.0	(1)	United States.....	320.0	276.1
South Atlantic Division.....	AA	(1)	Northeast Region.....	101.2	125.7
North Carolina.....	AA	(1)	New England Division.....	71.6	80.8
West Region.....	3.0	(1)	Massachusetts.....	(D)	44.7
Pacific Division.....	3.0	(1)	Connecticut.....	(D)	FF
California.....	3.0	(1)	Middle Atlantic Division.....	29.6	44.8
			New York.....	CC	11.3
			New Jersey.....	17.3	EE
			Pennsylvania.....	BB	EE
SENSITIZED PHOTOGRAPHIC PAPER AND CLOTH, OTHER THAN SILVER HALIDE TYPE (38617)			North Central Region.....	105.7	89.8
United States.....	306.2	193.5	East North Central Division.....	GG	GG
Northeast Region.....	72.9	48.5	Ohio.....	BB	AA
New England Division.....	24.5	EE	Indiana.....	EE	CC
New Hampshire.....	EE	EE	Illinois.....	GG	GG
Massachusetts.....	EE	(1)	Michigan.....	CC	2.6
Connecticut.....	BB	(1)	Wisconsin.....	EE	EE
Middle Atlantic Division.....	48.4	FF	West North Central Division.....	BB	EE
New York.....	30.9	FF	Iowa.....	AA	EE
New Jersey.....	CC	13.0	South Region.....	110.8	GG
Pennsylvania.....	CC	BB	South Atlantic Division.....	40.6	FF
North Central Region.....	168.8	115.7	Maryland.....	BB	(1)
East North Central Division.....	GG	GG	Virginia.....	CC	AA
Indiana.....	GG	FF	North Carolina.....	EE	EE
Illinois.....	GG	FF	Georgia.....	EE	CC
Michigan.....	3.6	3.1	East South Central Division.....	66.8	32.3
West North Central Division.....	GG	EE	Kentucky.....	BB	AA
Minnesota.....	FF	EE	Tennessee.....	EE	CC
Missouri.....	CC	(1)	Alabama.....	EE	BB
Nebraska.....	EE	BB	Mississippi.....	FF	EE
South Region.....	13.7	4.5	West South Central Division.....	3.5	BB
West South Central Division.....	EE	4.5	Arkansas.....	BB	AA
Louisiana.....	AA	AA	West Region.....	1.5	AA
Oklahoma.....	CC	(1)	Pacific Division.....	AA	AA
Texas.....	BB	BB	California.....	AA	AA
West Region.....	50.7	24.9	WATCHES WITH IMPORTED MOVEMENTS (38734)		
Mountain Division.....	AA	AA	United States.....	192.1	190.6
Colorado.....	AA	AA	Northeast Region.....	157.1	139.5
Pacific Division.....	FF	FF	New England Division.....	EE	FF
Oregon.....	FF	EE	Connecticut.....	EE	FF
California.....	EE	10.9	Middle Atlantic Division.....	GG	GG
			New York.....	133.6	GG
			Pennsylvania.....	CC	EE
PREPARED PHOTOGRAPHIC CHEMICALS (38618)			North Central Region.....	FF	FF
United States.....	268.2	148.3	East North Central Division.....	FF	FF
Northeast Region.....	226.1	137.5	Illinois.....	FF	FF
New England Division.....	CC	(1)	South Region.....	CC	EE
New Hampshire.....	CC	(1)	West South Central Division.....	CC	EE
Middle Atlantic Division.....	GG	GG	Texas.....	CC	EE
New York.....	GG	GG			
New Jersey.....	48.6	19.1	WATCHES WITH DOMESTIC MOVEMENTS AND PARTS FOR ALL WATCHES AND CLOCKS (38735)		
Pennsylvania.....	3.6	AA	United States.....	285.4	165.0
North Central Region.....	FF	7.2	Northeast Region.....	GG	GG
East North Central Division.....	19.3	7.2	New England Division.....	GG	FF
Ohio.....	AA	(1)	Connecticut.....	GG	FF
Illinois.....	17.5	5.6	Middle Atlantic Division.....	FF	55.5
West North Central Division.....	AA	(1)	New York.....	FF	FF
Minnesota.....	AA	(1)	North Central Region.....	CC	CC
South Region.....	BB	(1)	East North Central Division.....	CC	CC
East South Central Division.....	BB	(1)	Illinois.....	AA	CC
Kentucky.....	BB	(1)	Michigan.....	BB	(1)
West Region.....	17.4	BB			
Pacific Division.....	17.4	BB			
California.....	17.4	BB			

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
WATCHES WITH DOMESTIC MOVEMENTS AND PARTS FOR ALL WATCHES AND CLOCKS (38735)--Continued			WATCHCASES (38737)		
South Region.....	GG	GG	United States.....	52.9	(NA)
South Atlantic Division.....	CC	CC	Northeast Region.....	GG	(NA)
Georgia.....	CC	AA	New England Division.....	EE	(NA)
West South Central Division.....	GG	GG	Rhode Island.....	EE	(NA)
Arkansas.....	GG	( <sup>1</sup> )	Middle Atlantic Division.....	FF	(NA)
Texas.....	EE	GG	New York.....	28.8	(NA)
West Region.....	AA	( <sup>1</sup> )	Pennsylvania.....	EE	(NA)
Pacific Division.....	AA	( <sup>1</sup> )	North Central Region.....	BB	(NA)
California.....	AA	( <sup>1</sup> )	East North Central Division.....	BB	(NA)
			Michigan.....	BB	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to 49.9  
GG.....\$50.0 and over

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>This State or division was not shown as a separate line in table 6B in the 1967 report for this industry.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
38410	Surgical and medical instruments and apparatus.....	984.2	871.3	720.9	686.0	569.2	542.9	290.6	130.6
3842	Surgical appliances and supplies.....	1,142.1	982.3	900.3	881.8	792.3	691.3	461.8	362.0
38421	Surgical and orthopedic appliances and supplies.....	782.0	753.0	693.8	624.3	555.5	475.0	318.2	256.6
38423	Personal industrial safety devices.....	226.0	174.5	162.8	186.0	161.3	144.4	97.4	56.4
38424	Electronic hearing aids.....	50.0	47.8	42.4	42.0	43.3	40.9	35.3	39.5
38420	Surgical appliances and supplies, n.s.k.....	84.1	(7.0)	(1.3)	29.5	32.2	31.1	11.0	9.6
38430	Dental equipment and supplies.....	352.3	248.3	238.5	253.0	240.7	201.8	139.5	110.7
3851	Ophthalmic goods.....	483.5	448.7	408.7	431.9	382.0	377.5	244.1	168.0
38511	Ophthalmic fronts and temples.....	111.5	104.3	96.3	88.8	82.9	84.2	(NA)	(NA)
38512	Ophthalmic focus lenses, including contact lenses.....	134.5	182.2	145.4	148.3	124.5	134.2		
38513	All other ophthalmic goods.....	194.8	141.7	146.2	161.6	138.4	124.3		
38510	Ophthalmic goods, n.s.k.....	42.7	20.5	(20.8)	33.2	36.2	34.8		
3861	Photographic equipment and supplies.....	5,255.4	4,371.1	3,887.5	3,798.4	3,531.2	3,138.0	1,631.4	1,061.3
38611	Still picture equipment.....	616.5	400.2	405.6	475.4	493.4	484.8	223.6	179.4
38612	Photocopying equipment.....	1,455.1	(D)	(D)	(D)	(D)	620.2	173.6	<sup>2</sup> 57.7
38613	Motion picture equipment.....	191.6	139.6	126.3	180.5	190.4	194.3	127.9	148.0
38614	Microfilming, blueprinting, brownprinting, and white- printing equipment.....	137.5	103.2	89.8	96.4	83.7	53.6	29.3	( <sup>2</sup> )
38615	Photographic sensitized film and plates.....	1,427.6	1,547.3	1,409.6	1,340.8	1,209.3	1,084.7	604.9	396.0
38619	X-ray film.....	297.6							
38616	Sensitized photographic paper, cloth, silver halide type...	376.4	310.4	285.7	297.1	272.6	238.7	191.3	124.0
38617	Sensitized photographic paper and cloth, except silver halide.....	306.2	228.0	232.5	219.6	226.2	193.5	128.1	82.1
38618	Prepared photographic chemicals.....	286.2	200.5	183.6	(228.7)	(204.6)	148.3	74.3	35.9
38610	Photographic equipment and supplies, n.s.k.....	160.7	(D)	(D)	(D)	(D)	119.9	78.4	38.3
3873	Watches, clocks, and watchcases <sup>3</sup> .....	871.1	778.8	770.2	813.8	749.6	708.3	435.6	319.3
38731	Clocks.....	320.7	288.1	299.4	340.8	313.0	276.1	173.8	111.4
38734	Watches with imported movements.....	192.1	181.2	174.3	183.4	177.6	190.6	112.8	83.7
38735	Watches with domestic movements and parts.....	285.4	257.3	240.7	210.8	196.6	165.0	102.2	85.3
38737	Watchcases.....	52.9	38.3	42.9	56.2	53.1	44.8	29.4	27.8
38730	Watches, clocks, and watchcases, n.s.k.....	20.7	13.9	(12.9)	(22.6)	(9.3)	31.8	17.3	11.1

- Represents zero. (X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>e</sup> From 10 to 30 percent of this figure was estimated.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>For 1966 and previous years, except 1963, these figures are included with product class 38612, "Photocopying Equipment."

<sup>3</sup>Prior to 1972, this industry was published as two separate industries: 3871, Watches and Clocks; and 3872, Watchcases.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3841.--SURGICAL AND MEDICAL INSTRUMENTS  (Materials consumed data are not applicable for this industry)					
	INDUSTRY 3842.--SURGICAL APPLIANCES AND SUPPLIES					
	Materials, parts, containers, and supplies, total.....		(X)	423.6	(X)	266.5
207431	Cotton linters (net weight).....	Million lb...	12.2	4.1	(NA)	1.0
221101	Cotton broadwoven fabrics (piece goods).....	Mil. lin. yd.	(NA)	23.2	(NA)	8.8
220149	Other broadwoven fabrics (piece goods).....	...do.....	9.7	8.4	(NA)	2.4
229710	Nonwoven fabric.....	Mil. sq. yd..	(NA)	15.2	(NA)	(NA)
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	328.0	(X)	205.5
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	44.7	(X)	48.8

See footnotes at end of table.



TABLE 7A. Materials Consumed, by Kind: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3843.--DENTAL EQUIPMENT AND SUPPLIES and INDUSTRY 3851.--OPHTHALMIC GOODS  (Materials consumed data are not applicable for these industries)					
	INDUSTRY 3861.--PHOTOGRAPHIC EQUIPMENT AND SUPPLIES  Materials, components, parts, containers, and supplies, total.....		(X)	<sup>2</sup> 1,297.1	(X)	1,013.2
	Mill shapes and forms (except castings):					
331001	Carbon steel.....	1,000 s. tons	}	(D)	}	18.7
331020	Alloy steel, except stainless.....	...do.....				5.1
	Stainless steel:					
331033	Sheet and strip.....	...do.....				3.7
331050	All other stainless steel mill shapes and forms.....	...do.....				4.4
335105	Copper and copper-base alloy.....	Million lb...	7.8	3.4	1.4	.8
335001	Aluminum and aluminum-base alloy.....	...do.....	6.7	4.9	6.8	3.9
336100	Aluminum and aluminum-base alloy castings <sup>3</sup> .....	...do.....	(NA)	29.0	(NA)	5.3
	Fractional horsepower electric motors (under 1 hp.): <sup>3</sup>					
362110	Timing motors, synchronous and subsynchronous.....	Million units	.2	1.8	.7	3.2
362115	Other fractional horsepower motors, excluding timing motors....	...do.....	2.3	14.8	1.8	5.4
367010	Electron tubes, except X-ray <sup>3</sup> .....	...do.....	.1	.2	.3	.9
367408	Solid state semiconductors <sup>3</sup> .....	...do.....	(D)	(D)	2.1	1.3
281997	Silver nitrate.....	Million oz...	41.2	38.9	28.3	25.3
383211	Photographic and projection lens and prisms.....	...do.....	(X)	49.9	(X)	30.8
970099	All other materials, components, parts, containers, and supplies consumed.....		(X)	913.7	(X)	741.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	42.1	(X)	184.0

1972 code	Material	Unit of measure	1972	
			Quantity	Delivered cost (million dollars)
	INDUSTRY 3873.--WATCHES, CLOCKS, AND WATCHCASES  Materials, parts, containers, and supplies, total.....			(X) 485.2
	Fractional horsepower electric motors (under 1 hp.):			
362110	Timing motors, synchronous and subsynchronous.....	Million units.....	3.6	3.5
362115	Other fractional horsepower electric motors (excluding timing motors).....	...do.....	(Z)	(Z)
	Watchcases:			
	Men's wristwatch cases:			
387371	Carat gold and platinum.....	...do.....	.3	5.5
387372	Gold filled.....	...do.....	.3	2.6
387373	Rolled gold plate and sterling silver (including rolled gold plate with steel back).....	...do.....	1.4	5.9
387374	Other metals.....	...do.....	5.8	14.2
	Women's wristwatch cases:			
387375	Carat gold and platinum.....	...do.....	.6	10.5
387376	Gold filled.....	...do.....	.7	1.6
387377	Rolled gold plate and sterling silver (including rolled gold plate with steel back).....	...do.....	2.8	5.0
387378	Other metals.....	...do.....	18.7	28.2
387379	Pocket and other watchcases (all qualities).....	...do.....	.4	1.7
387358	Imported watch movements.....	...do.....	19.5	116.4
970099	All other materials, components, parts, containers, and supplies consumed.....		(X)	261.9
976000	Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....		(X)	13.7

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>This item represents the total cost of materials for establishments that did not report detailed materials data.<sup>2</sup>Includes cost for materials indicated by the symbol (D).<sup>3</sup>Excludes quantities produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3841.--SURGICAL AND MEDICAL INSTRUMENTS					
	Purchased fuels and electric energy.....		(X)	5.3	(X)	(NA)
	Purchased fuels, total.....		(X)	1.3	(X)	(NA)
121005	Coal.....	1,000 s. tons....	.6	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	52.2	.3	(NA)	(NA)
291141	Distillate.....	...do.....	32.8	.2	(NA)	(NA)
291151	Residual.....	...do.....	19.4	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.4	.8	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.2	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	274.6	4.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.0	-	(NA)	(NA)
	INDUSTRY 3842.--SURGICAL APPLIANCES AND SUPPLIES					
	Purchased fuels and electric energy.....		(X)	7.5	(X)	(NA)
	Purchased fuels, total.....		(X)	2.4	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	122.3	.5	(NA)	(NA)
291141	Distillate.....	...do.....	86.5	.4	(NA)	(NA)
291151	Residual.....	...do.....	35.8	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.9	1.1	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.7	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	396.9	5.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.5	-	(NA)	(NA)
	INDUSTRY 3843.--DENTAL EQUIPMENT AND SUPPLIES					
	Purchased fuels and electric energy.....		(X)	2.0	(X)	(NA)
	Purchased fuels, total.....		(X)	.6	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	8.0	(Z)	(NA)	(NA)
291141	Distillate.....	...do.....	.8	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	7.2	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.4	.2	(NA)	(NA)
960011	Other fuels.....		(X)	.2	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	96.1	1.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.3	-	(NA)	(NA)
	INDUSTRY 3851.--OPHTHALMIC GOODS					
	Purchased fuels and electric energy.....		(X)	5.3	(X)	(NA)
	Purchased fuels, total.....		(X)	1.9	(X)	(NA)
121005	Coal.....	1,000 s. tons....	-	-	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	129.3	.6	(NA)	(NA)
291141	Distillate.....	...do.....	100.2	.5	(NA)	(NA)
291151	Residual.....	...do.....	29.1	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.7	.6	(NA)	(NA)
960011	Other fuels.....		(X)	.4	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.3	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	198.8	3.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.9	-	(NA)	(NA)

See footnotes at end of table.

TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost (million dollars)	Quantity	Cost (million dollars)
	INDUSTRY 3861.--PHOTOGRAPHIC EQUIPMENT AND SUPPLIES					
	Purchased fuels and electric energy.....		(X)	31.3	(X)	18 <sup>1</sup> .8
	Purchased fuels, total.....		(X)	18.1	(X)	9.5
121005	Coal.....	1,000 s. tons....	670.9	8.3	( <sup>1</sup> )	( <sup>1</sup> )
331212	Coke.....	...do.....	-	-	(Z)	(Z)
	Fuel oil, total.....	1,000 bbl (42 gal)	816.5	4.1	233.2	.8
291141	Distillate.....	...do.....	123.1	.5	162.5	.6
291151	Residual.....	...do.....	693.3	3.6	70.7	.2
131300	Natural gas.....	Billion ft <sup>3</sup> .....	5.1	3.2	2.4	1.7
960011	Other fuels.....		(X)	.7	(X)	5.6
975000	Fuels, n.s.k.....		(X)	1.8	(X)	1.4
960012	Purchased electric energy.....	Million kWh.....	968.3	13.2	776.8	9.3
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	575.4	-
	Total energy used for heat and power.....	Bill. kWh equiv....	10.2	-	8.4	-
	INDUSTRY 3873.--WATCHES, CLOCKS, AND WATCHCASES					
	Purchased fuels and electric energy.....		(X)	4.2	(X)	(NA)
	Purchased fuels, total.....		(X)	1.2	(X)	(NA)
121005	Coal.....	1,000 s. tons....	22.8	(Z)	(NA)	(NA)
331212	Coke.....	...do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	57.4	(Z)	(NA)	(NA)
291141	Distillate.....	...do.....	30.6	(Z)	(NA)	(NA)
291151	Residual.....	...do.....	26.8	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	(Z)	(Z)	(NA)	(NA)
960011	Other fuels.....		(X)	-	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	206.1	3.0	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	.9	-	(NA)	(NA)

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Represents the quantity of purchased electric energy and the kilowatt hours equivalent of all fuels used for heat and power.



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## MAJOR GROUP 39

### Miscellaneous Manufacturing Industries

- 39A Jewelry, silverware, and plated ware
- 39B Musical instruments and parts; toys and sporting goods
- 39C Office supplies, costume jewelry and notions
- 39D Miscellaneous manufactures

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing major group. Industries in this group fall into the following categories: Jewelry, silverware, and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

TABLE 1. General Statistics: 1972 and Earlier Years

(See appendix, Explanation of Terms)

Year and item	Establishments		All employees <sup>1</sup>		Production workers			Value added by manufacture <sup>2</sup>	Cost of materials <sup>3</sup>	Value of industry shipments <sup>3</sup>	Capital expenditures, new <sup>4</sup>
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages				
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
All manufacturing establishments, total: <sup>5</sup>											
1972.....	15,328	3,834	456.0	3,316.3	349.1	660.9	2,084.4	6,768.7	5,554.3	12,173.2	313.6
1967.....	14,171	3,726	405.7	2,375.1	344.4	662.0	1,552.5	4,599.4	3,773.4	8,310.7	213.5
1963.....	14,800	3,662	397.6	1,869.6	315.0	613.2	1,253.5	3,562.4	2,965.0	6,494.8	131.0
1958.....	13,854	3,368	370.9	1,515.7	291.2	558.4	1,033.6	2,678.3	(NA)	4,965.5	110.7
1954.....	(NA)	(NA)	472.4	1,664.0	385.4	748.1	1,148.7	2,746.0	(NA)	(NA)	115.0
Administrative and auxiliary units:											
1972 <sup>6 8</sup> .....	141	80	10.4	136.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1967 <sup>7 8</sup> .....	99	64	8.1	84.1	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1963 <sup>8</sup> .....	77	44	6.9	57.5	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1958 <sup>8</sup> .....	57	32	6.3	48.3	(X)	(X)	(X)	(X)	(X)	(X)	(X)
1954 <sup>7 8</sup> .....	(NA)	(NA)	95.7	938.6	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Operating manufacturing establishments:											
1972 <sup>6</sup> .....	15,187	3,754	445.6	3,179.8	349.1	660.9	2,084.4	6,768.7	5,554.3	12,173.2	313.6
1967 <sup>6</sup> .....	14,072	3,845	423.1	2,291.0	344.4	662.0	1,552.5	4,599.4	3,773.4	8,310.7	213.5
1963 <sup>6</sup> .....	14,723	3,618	390.9	1,812.1	315.0	613.2	1,253.5	3,562.4	2,965.0	6,494.8	131.0
1958 <sup>6</sup> .....	13,797	3,336	364.6	1,467.4	291.2	558.5	1,033.6	2,678.3	(NA)	4,965.5	110.7
1954 <sup>6</sup> .....	16,517	4,289	466.7	1,625.4	385.4	748.1	1,148.7	2,746.0	(X)	(X)	115.0
Operating manufacturing establishments:											
1971 <sup>6 9</sup> .....	(NA)	(NA)	411.3	2,739.9	319.1	604.4	1,773.2	5,707.3	4,470.2	10,122.0	262.5
1970 <sup>6 9</sup> .....	(NA)	(NA)	429.3	2,684.9	337.0	643.3	1,752.3	5,433.1	4,348.3	9,743.4	253.2
1969 <sup>6 9</sup> .....	(NA)	(NA)	448.5	2,664.8	362.5	689.7	1,796.4	5,296.3	4,426.0	9,665.4	240.0
1968 <sup>6 9</sup> .....	(NA)	(NA)	430.7	2,461.3	348.8	669.2	1,666.7	4,950.9	4,074.7	8,945.0	209.0
1966 <sup>6 9</sup> .....	(NA)	(NA)	418.2	2,150.3	340.2	666.3	1,463.3	4,338.3	3,778.8	7,971.4	181.3
1965 <sup>6 9</sup> .....	(NA)	(NA)	416.0	2,042.2	339.6	661.1	1,393.3	4,092.3	3,510.7	7,541.4	165.9
1964 <sup>6 9</sup> .....	(NA)	(NA)	393.7	1,924.0	315.0	631.4	1,313.7	3,762.6	3,151.5	6,889.0	137.4
1962 <sup>6 9</sup> .....	(NA)	(NA)	378.4	1,704.9	304.6	596.7	1,163.2	3,329.5	2,845.4	6,109.7	129.8
1961 <sup>6 9</sup> .....	(NA)	(NA)	374.9	1,608.3	302.5	585.4	1,096.9	3,082.4	2,736.3	5,832.7	112.5
1960 <sup>6 9</sup> .....	(NA)	(NA)	373.5	1,653.1	300.7	587.7	1,090.9	3,002.5	(NA)	(NA)	111.1
1959 <sup>6 9</sup> .....	(NA)	(NA)	376.3	1,556.0	305.0	590.7	1,083.9	2,887.9	(NA)	(NA)	124.3
1957 <sup>9</sup> .....	(NA)	(NA)	495.2	1,885.5	403.4	776.3	1,313.3	3,327.1	(NA)	(NA)	121.8
1956 <sup>9</sup> .....	(NA)	(NA)	505.9	1,860.8	416.7	813.9	1,323.8	3,304.8	(NA)	(NA)	158.0
1955 <sup>9</sup> .....	(NA)	(NA)	489.3	1,734.2	403.9	783.4	1,224.8	3,041.6	(NA)	(NA)	116.5
1953 <sup>9 10</sup> .....	(NA)	(NA)	843.5	3,232.1	686.1	1,367.8	2,366.4	5,271.8	(NA)	(NA)	205.4
1952 <sup>9 10</sup> .....	(NA)	(NA)	681.9	2,374.7	564.0	1,102.1	1,731.2	3,984.2	(NA)	(NA)	(NA)
1951 <sup>9 10</sup> .....	15,057	(NA)	519.1	1,711.2	431.9	862.4	1,223.3	2,842.3	(NA)	(NA)	116.3
1950 <sup>9 10</sup> .....	13,764	(NA)	488.3	1,452.0	404.0	799.5	1,054.7	2,534.3	(NA)	(NA)	98.3
1949 <sup>9 10</sup> .....	(NA)	(NA)	447.2	1,262.7	370.2	727.5	917.0	2,108.7	(NA)	(NA)	77.0
1947 <sup>10</sup> .....	14,148	(NA)	463.4	1,205.2	396.0	811.3	917.6	2,066.3	(NA)	(NA)	107.0

(X) Not applicable. (NA) Not available.

<sup>1</sup>The figures for 1939 through 1972 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1972, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy, and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work in process during the year. For 1921 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See "Value Added by Manufacture" in Introduction.

<sup>3</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1972 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>See appendix C of the General Summary for the 1972 changes in the Standard Industrial Classification.

<sup>6</sup>Figures for 1958 to 1972 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification system. Prior to 1958, establishments primarily engaged in the manufacture of plastics products, n.e.c., cork products, soda-fountain and bar equipment, and jewelry, instrument, and musical instrument cases were included in these data. Establishments primarily engaged in the manufacture of linoleum and other hard surface floor covering, n.e.c., are excluded in data prior to 1958.

<sup>7</sup>In 1954 and 1967, data for administrative and auxiliary establishments for Major Group 19, "Ordnance and Accessories," are included with Major Group 39, "Miscellaneous Manufactures."

<sup>8</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative office and auxiliary units are included in Major Group 39 for Major Groups 39 and 19 for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, 1964 to 1966, 1968 to 1971, and prior to 1949.

<sup>9</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>10</sup>For 1953 and earlier years, data includes ordnance and accessories.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manu- facture	Cost of materials <sup>2</sup>	Value of shipments <sup>3</sup>	Capital expendi- tures, new	All employees	Value added by manu- facture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
39	HISC. MANUFACTURING INDUSTRIES. . .	15 187	5 754	445.6	3 179.8	349.1	660.9	2 084.4	6 768.7	5 554.3	12 173.2	313.6	423.1	4 599.4
	NORTHEAST REGION . . . . .	6 614	1 806	209.5	1 532.4	164.2	311.3	1 003.0	3 255.7	2 841.9	6 040.0	153.4	213.1	2 352.2
	NEW ENGLAND DIVISION . . . . .	1 776	547	72.5	523.8	57.4	108.3	335.3	1 118.0	783.2	1 876.7	51.2	71.3	832.8
	MAINE . . . . .	55	9	.9	4.5	.8	1.6	3.5	8.1	5.0	12.4	1.0	.8	4.7
	NEW HAMPSHIRE . . . . .	52	14	1.9	11.8	1.7	3.0	9.0	19.8	12.7	33.4	3.7	1.5	11.5
	VERMONT . . . . .	37	13	.9	4.7	.7	1.2	3.0	11.1	6.4	17.3	.7	.6	5.1
	MASSACHUSETTS . . . . .	574	191	27.9	209.3	21.3	40.0	127.4	452.8	285.0	727.5	16.4	28.6	337.9
	RHODE ISLAND . . . . .	809	224	26.8	175.9	22.2	40.8	114.7	392.8	296.0	676.6	15.1	24.2	240.4
	CONNECTICUT . . . . .	249	96	14.2	117.5	10.7	21.7	77.7	233.4	178.1	409.5	14.2	15.7	233.3
	MIDDLE ATLANTIC DIVISION . . . . .	4 838	1 259	137.0	1 008.6	106.8	203.0	667.7	2 137.7	2 058.7	4 163.3	102.3	141.8	1 519.4
	NEW YORK . . . . .	3 475	838	79.1	569.9	62.1	115.4	364.4	1 183.2	1 287.9	2 438.1	46.2	89.7	943.8
	NEW JERSEY . . . . .	709	234	27.4	197.2	21.0	40.7	129.9	418.6	322.5	741.5	24.2	26.0	264.7
	PENNSYLVANIA . . . . .	654	187	30.5	241.4	23.8	46.9	173.4	535.9	448.3	983.7	31.9	26.1	310.8
	NORTH CENTRAL REGION . . . . .	3 253	902	112.2	834.5	87.0	164.0	541.8	1 730.1	1 348.0	3 046.3	81.1	111.5	1 219.9
	EAST NORTH CENTRAL DIVISION . . . . .	2 397	676	86.1	664.5	66.3	125.3	430.9	1 372.6	1 080.4	2 425.5	62.4	88.7	996.1
	OHIO . . . . .	577	159	18.6	137.6	14.3	27.0	87.4	286.2	197.1	484.6	14.4	19.7	223.7
	INDIANA . . . . .	268	67	8.9	71.4	6.8	12.7	44.7	169.2	122.0	288.3	5.7	10.5	132.9
	ILLINOIS . . . . .	802	278	36.1	275.7	28.3	54.3	183.8	554.2	471.4	1 005.0	26.8	37.2	394.9
	MICHIGAN . . . . .	432	77	9.8	81.2	7.5	14.1	55.8	159.0	138.0	295.1	5.1	12.2	137.0
	WISCONSIN . . . . .	318	95	12.8	98.5	9.3	17.1	59.3	204.0	152.0	352.5	10.3	9.1	107.7
	WEST NORTH CENTRAL DIVISION . . . . .	856	226	26.1	170.1	20.7	38.7	110.9	357.5	267.6	620.8	18.7	23.4	228.7
	MINNESOTA . . . . .	232	68	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	7.7	69.9
	IOWA . . . . .	142	42	6.2	44.0	4.6	9.2	26.7	107.9	63.8	170.4	3.8	5.6	64.8
	MISSOURI . . . . .	286	86	7.7	47.9	6.3	11.9	32.7	100.6	77.3	177.0	5.3	6.8	62.7
	NORTH DAKOTA . . . . .	19	4	.3	2.1	.3	.5	1.4	2.8	1.6	4.4	.3	.2	1.6
	SOUTH DAKOTA . . . . .	21	3	.2	.9	.1	.2	.5	1.7	1.6	3.3	.1	.2	1.5
	NEBRASKA . . . . .	67	12	1.5	8.8	1.1	2.1	5.7	18.8	11.9	31.3	.9	1.7	16.5
	KANSAS . . . . .	89	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	11.8
	SOUTH REGION . . . . .	2 729	581	74.9	454.8	62.0	118.7	320.6	1 051.5	803.4	1 821.6	49.3	58.5	569.4
	SOUTH ATLANTIC DIVISION . . . . .	1 347	251	33.6	209.3	28.0	53.6	146.1	470.6	346.5	803.5	24.3	28.2	277.4
	MARYLAND . . . . .	129	36	3.4	23.5	2.7	5.2	15.3	47.4	34.3	79.1	2.2	4.4	42.3
	DISTRICT OF COLUMBIA . . . . .	19	3	.3	1.9	.2	.3	1.3	3.2	1.4	4.6	(2)	.2	2.4
	VIRGINIA . . . . .	120	29	3.9	25.3	3.2	6.0	17.1	39.3	42.2	81.1	1.2	3.7	34.7
	WEST VIRGINIA . . . . .	45	11	1.8	11.9	1.7	3.3	10.3	25.9	22.2	48.0	1.3	1.5	11.3
	NORTH CAROLINA . . . . .	202	47	6.3	39.2	5.3	10.5	26.7	101.9	69.4	167.8	4.9	4.1	42.4
	SOUTH CAROLINA . . . . .	74	22	5.0	28.9	4.2	8.1	20.8	79.3	47.0	124.4	5.2	4.3	40.4
	GEORGIA . . . . .	182	40	6.9	42.4	5.7	11.1	29.6	103.5	73.5	173.5	4.8	5.8	67.4
	FLORIDA . . . . .	553	63	5.9	35.5	4.9	8.9	24.5	67.8	55.4	121.8	4.6	4.0	34.7
	EAST SOUTH CENTRAL DIVISION . . . . .	500	160	22.8	134.0	19.1	36.9	98.1	330.4	265.9	584.6	14.4	17.6	174.3
	KENTUCKY . . . . .	105	37	4.6	29.6	3.8	7.3	20.2	66.9	48.8	112.8	4.8	3.3	33.3
	TENNESSEE . . . . .	229	80	10.2	59.0	8.5	16.1	43.9	135.2	125.0	254.8	5.4	8.6	77.2
	ALABAMA . . . . .	108	26	3.4	20.0	2.8	5.5	13.7	45.6	41.8	86.4	2.3	2.5	22.2
	MISSISSIPPI . . . . .	58	17	4.6	25.4	4.0	8.0	20.4	82.8	50.3	130.5	1.9	3.2	41.5
	WEST SOUTH CENTRAL DIVISION . . . . .	882	170	18.4	111.4	14.9	28.1	76.4	250.6	191.0	433.6	10.6	12.7	117.8
	ARKANSAS . . . . .	84	28	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.6	33.8
	LOUISIANA . . . . .	95	15	1.5	9.5	1.2	2.4	6.5	18.6	18.2	37.6	.7	1.4	11.2
	OKLAHOMA . . . . .	121	15	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.3	13.1
	TEXAS . . . . .	582	112	10.0	63.0	8.0	14.8	41.9	132.9	98.2	229.3	(0)	6.5	59.6
	WEST REGION . . . . .	2 591	465	49.0	358.1	36.7	66.9	218.9	731.3	561.0	1 265.2	29.8	40.1	457.7
	MOUNTAIN DIVISION . . . . .	517	75	8.2	56.5	6.4	11.8	36.3	103.0	85.0	182.6	7.2	4.9	42.5
	MONTANA . . . . .	30	4	.4	1.9	.4	.7	1.3	2.9	1.3	4.2	.6	.3	1.5
	IDAHO . . . . .	32	3	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.3	2.7
	COLORADO . . . . .	166	30	3.3	24.4	2.4	4.4	14.3	39.8	34.2	70.3	3.2	2.0	17.6
	NEW MEXICO . . . . .	66	7	1.0	5.4	.7	1.3	3.0	10.2	5.2	15.3	.4	.7	5.4
	ARIZONA . . . . .	99	16	1.5	9.3	1.2	2.2	6.3	20.2	18.4	37.8	.7	.7	6.3
	UTAH . . . . .	67	10	1.4	10.7	1.2	2.3	8.1	18.4	19.4	37.1	1.2	.8	6.8
	NEVADA . . . . .	38	5	.4	2.7	.3	.5	1.8	7.2	4.4	11.4	.6	(NA)	(NA)
	PACIFIC DIVISION . . . . .	2 074	390	40.8	301.7	30.4	55.1	182.7	628.3	476.0	1 082.6	22.5	34.9	413.6
	WASHINGTON . . . . .	223	40	2.9	22.0	2.3	4.1	14.8	43.9	29.5	71.4	2.2	1.8	18.7
	OREGON . . . . .	136	28	2.2	14.6	1.7	2.8	8.9	27.5	18.7	45.1	1.9	1.8	17.7
	CALIFORNIA . . . . .	1 651	313	34.7	260.8	25.7	47.0	156.7	549.3	422.5	953.1	17.7	30.9	374.7
	HAWAII . . . . .	55	9	.8	4.0	.7	1.2	2.0	6.9	4.8	11.9	.8	.5	2.0
391	JEWELRY, SILVER AND PLATEWARE . . .	2 296	473	53.2	424.5	40.2	76.4	265.9	850.8	1 002.7	1 812.5	21.9	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 716	384	42.7	346.5	32.2	61.3	213.7	686.4	863.5	1 513.7	17.5	43.7	546.1
	NEW ENGLAND DIVISION . . . . .	515	158	21.6	165.3	16.3	31.4	101.6	315.3	266.3	564.9	7.6	23.6	284.4
	MASSACHUSETTS . . . . .	114	52	8.2	66.4	5.7	11.3	36.4	122.0	91.4	205.5	2.9	8.7	101.7
	RHODE ISLAND . . . . .	368	94	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	10.7	123.1
	CONNECTICUT . . . . .	25	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
	MIDDLE ATLANTIC DIVISION . . . . .	1 201	226	21.1	181.2	15.9	29.9	112.1	371.1	597.2	948.8	10.0	20.1	261.7
	NEW YORK . . . . .	1 021	181	17.2	147.8	12.9	24.0	91.3	309.3	526.1	818.9	8.7	15.9	218.8
	NEW JERSEY . . . . .	107	34	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	35.9
	PENNSYLVANIA . . . . .	73	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.5	7.1
	NORTH CENTRAL REGION . . . . .	181	37	4.3	34.4	3.1	5.8	22.0	74.2	57.5	129.7	1.3	4.9	53.3
	EAST NORTH CENTRAL DIVISION . . . . .	152	26	3.3	28.1	2.3	4.4	17.7	60.1	50.5	108.9	1.0	3.8	47.4
	OHIO . . . . .	39	4	.5	4.1	.4	.8	2.7	9.0	7.3	16.1	.1	.5	6.4
	INDIANA . . . . .	23	4	.9	8.3	.6	1.3	5.0	16.4	10.3	27.2	.2	1.2	17.4
	ILLINOIS . . . . .	53	12	1.4	11.3	1.0	1.7	7.5	27.2	23.3	48.6	.5	1.5	15.8
	MICHIGAN . . . . .	31	6	.5	4.2	.3	.6	2.3	7.1	9.3	16.3	.2	.5	7.5
	WEST NORTH CENTRAL DIVISION . . . . .	29	11	1.0	6.3	.8	1.4	4.3	14.2	7.0	20.8	.3	1.2</	

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 2D employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
391	JEWELRY, SILVER AND PLATED WARE-- CONTINUEO													
	SDUTH REGION . . . . .	153	22	2.8	17.8	2.2	4.2	11.9	41.0	32.3	72.0	2.0	1.3	14.2
	SDUTH ATLANTIC DIVISION . . . . .	80	10	1.1	7.7	.9	1.8	5.0	14.9	12.9	27.3	.6	.6	7.1
	MARYLAND . . . . .	6	3	.4	2.8	.3	.5	1.6	5.4	2.5	7.7	(D)	.3	4.5
	FLDRIDA . . . . .	47	5	.5	3.6	.4	.8	2.4	6.7	8.6	15.2	.4	(NA)	(NA)
	WEST SDUTH CENTRAL DIVISION . . . . .	59	10	1.6	9.2	1.2	2.3	6.3	24.2	17.8	41.4	1.3	.5	6.2
	OKLAHOMA . . . . .	11	2	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS . . . . .	41	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.8
	WEST REGION . . . . .	246	30	3.4	25.8	2.8	5.0	18.3	49.2	49.5	97.1	1.1	2.4	27.3
	MDUNTAIN DIVISION . . . . .	47	9	1.4	8.2	1.1	2.1	5.7	12.3	19.1	31.4	.3	.8	4.6
	COLDRADO . . . . .	11	3	.2	.7	.1	.3	.5	1.6	1.2	2.7	(Z)	(NA)	(NA)
	NEW MEXICO . . . . .	11	3	.6	3.5	.5	.9	1.8	6.4	2.8	9.2	.1	.88	(D)
	UTAH . . . . .	5	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
	PACIFIC DIVISION . . . . .	199	21	2.0	17.6	1.7	2.9	12.6	36.9	30.4	65.7	.8	1.6	22.6
	WASHINGTON . . . . .	22	4	.2	1.8	.2	.3	1.2	3.3	2.5	5.8	(Z)	.2	1.8
	CALIFORNIA . . . . .	161	15	1.6	14.3	1.3	2.3	10.3	30.7	24.9	54.2	.7	1.2	18.2
393	MUSICAL INSTRUMENTS . . . . .	344	111	24.5	173.4	19.7	38.3	123.9	339.3	296.6	617.5	10.6	(NA)	(NA)
	NORTHEAST REGION . . . . .	109	30	3.6	27.0	3.0	5.7	19.2	44.2	25.3	70.2	2.3	4.2	39.6
	NEW ENGLAND DIVISION . . . . .	36	9	.8	7.3	.7	1.3	5.0	11.2	5.7	16.4	.8	(NA)	(NA)
	MASSACHUSETTS . . . . .	24	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CONNECTICUT . . . . .	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MIDDLE ATLANTIC DIVISION . . . . .	73	21	2.7	19.8	2.3	4.4	14.2	33.0	19.6	53.7	1.6	(NA)	(NA)
	NEW YORK . . . . .	38	13	1.6	11.3	1.4	2.6	8.6	16.8	10.8	29.5	.4	(NA)	(NA)
	NEW JERSEY . . . . .	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PENNSYLVANIA . . . . .	15	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CENTRAL REGION . . . . .	124	45	10.7	81.5	8.3	16.0	57.0	165.8	166.1	324.6	4.7	12.9	140.3
	EAST NDRTH CENTRAL DIVISION . . . . .	100	43	10.2	77.7	7.9	15.4	55.4	159.4	158.4	310.8	4.3	(NA)	(NA)
	OHIO . . . . .	21	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	INDIANA . . . . .	26	10	2.7	22.4	2.2	4.3	15.0	55.2	53.8	105.9	.9	(NA)	(NA)
	ILLINOIS . . . . .	34	15	4.8	35.1	3.5	7.0	25.0	67.5	79.8	143.6	2.5	(NA)	(NA)
	MICHIGAN . . . . .	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WISCONSIN . . . . .	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST NDRTH CENTRAL DIVISION . . . . .	24	2	.5	3.8	.3	.6	1.6	6.4	7.7	13.9	.3	(NA)	(NA)
	KANSAS . . . . .	5	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SDUTH REGION . . . . .	45	20	6.6	37.3	5.9	11.4	30.5	76.3	66.5	139.7	2.8	5.4	37.0
	SDUTH ATLANTIC DIVISION . . . . .	24	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MARYLAND . . . . .	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	NORTH CAROLINA . . . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	SDUTH CAROLINA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	EAST SDUTH CENTRAL DIVISION . . . . .	11	7	3.7	22.1	3.3	6.7	18.6	45.6	36.0	80.1	1.7	(NA)	(NA)
	TENNESSEE . . . . .	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MISSISSIPPI . . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST SDUTH CENTRAL DIVISION . . . . .	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARKANSAS . . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	WEST REGION . . . . .	66	16	3.7	27.6	2.6	5.2	17.1	52.9	38.8	82.9	.9	2.4	20.9
	MDUNTAIN DIVISION . . . . .	17	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	ARIZONA . . . . .	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	UTAH . . . . .	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	49	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	DREGON . . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	CALIFORNIA . . . . .	38	8	2.7	21.2	1.7	3.4	12.6	42.2	29.1	63.7	(D)	(NA)	(NA)
394	TOYS AND SPORTING GOODS . . . . .	2 460	852	132.7	880.9	106.4	201.6	599.4	1 999.3	1 706.8	3 662.6	121.2	(NA)	(NA)
	NORTHEAST REGION . . . . .	791	343	52.3	346.4	41.8	79.6	241.4	805.2	719.9	1 512.5	55.4	48.5	468.5
	NEW ENGLAND DIVISION . . . . .	201	87	14.8	100.1	12.1	22.6	69.1	252.3	152.8	400.0	21.1	12.7	137.0
	MAINE . . . . .	15	4	.4	1.9	.3	.7	1.5	3.6	2.9	5.8	(D)	(NA)	(NA)
	NEW HAMPSHIRE . . . . .	16	6	.8	3.9	.7	1.3	3.4	5.4	3.3	10.0	(D)	.6	4.6
	VERMONT . . . . .	13	8	.5	2.2	.4	.6	1.3	4.9	2.4	7.1	.3	.2	1.7
	MASSACHUSETTS . . . . .	96	41	8.3	58.7	6.6	12.4	39.0	159.7	82.1	239.0	8.4	7.8	90.3
	RHOE ISLAND . . . . .	18	10	3.5	24.2	3.1	5.6	18.0	60.3	49.2	106.6	6.7	EE	(D)
	CONNECTICUT . . . . .	43	18	1.3	9.2	1.0	1.9	5.9	18.3	12.9	31.4	1.6	EE	(D)
	MIDDLE ATLANTIC DIVISION . . . . .	590	256	37.5	246.3	29.8	57.0	172.4	552.9	567.1	1 112.6	34.3	35.8	331.5
	NEW YORK . . . . .	375	158	21.3	136.1	17.2	31.9	89.4	328.0	311.2	622.9	16.4	21.4	204.8
	NEW JERSEY . . . . .	105	44	7.5	43.1	5.6	11.4	28.3	109.2	81.9	194.4	10.8	8.8	81.5
	PENNSYLVANIA . . . . .	110	54	8.7	67.1	7.0	13.8	54.6	115.7	174.0	295.2	7.0	5.6	45.2
	NORTH CENTRAL REGION . . . . .	691	249	38.5	265.9	31.2	58.7	182.8	574.3	502.6	1 071.9	35.7	33.4	363.7
	EAST NORTH CENTRAL DIVISION . . . . .	482	182	28.6	204.2	23.1	43.1	141.3	439.9	382.0	818.8	25.9	25.6	282.9
	OHIO . . . . .	98	33	6.4	43.6	5.2	9.4	27.5	103.5	64.7	173.1	7.1	7.5	94.7
	INDIANA . . . . .	38	12	1.2	8.0	1.0	1.6	5.6	16.8	12.5	29.2	.6	1.5	13.3
	ILLINOIS . . . . .	169	74	10.5	75.0	8.9	17.5	54.7	163.2	150.0	305.1	11.9	9.0	93.7
	MICHIGAN . . . . .	90	31	5.0	38.1	3.8	7.3	26.7	84.3	86.8	169.6	2.4	5.1	58.5
	WISCONSIN . . . . .	87	32	5.5	39.5	4.1	7.4	26.8	72.2	68.0	141.8	4.0	2.4	22.7
	WEST NORTH CENTRAL DIVISION . . . . .	209	67	9.9	61.6	8.2	15.6	41.5	134.4	120.6	253.1	9.8	8.4	85.7
	MINNESOTA . . . . .	77	28	4.6	29.7	3.8	7.0	19.5	55.6	61.2	115.1	5.7	4.5	46.0
	IOWA . . . . .	36	13	2.3	15.1	1.8	3.5	9.4	41.8	22.9	65.0	2.2	1.8	21.0
	MISSOURI . . . . .	60	22	2.4	13.6	2.1	4.1	10.1	30.4	30.4	60.3	1.7	1.8	15.8
	NEBRASKA . . . . .	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	KANSAS . . . . .	20	2	.4	2.3	.3	.6	1.7	4.4	4.7	9.1	.1	.2	1.1

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)
394	TOYS AND SPORTING GOODS--CONTINUED													
	SOUTH REGION . . . . .	456	142	24.1	140.8	20.3	39.6	102.2	334.3	244.6	560.9	16.6	17.9	173.9
	SOUTH ATLANTIC DIVISION . . . . .	214	57	10.5	62.4	8.9	17.2	45.1	134.0	100.0	228.3	8.5	8.3	79.4
	MARYLAND . . . . .	20	6	.7	4.0	.6	1.1	3.0	12.6	8.4	19.5	1.2	1.0	11.0
	VIRGINIA . . . . .	16	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST VIRGINIA . . . . .	13	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	7.4
	NORTH CAROLINA . . . . .	31	6	1.4	8.5	1.2	2.7	5.9	19.3	11.2	29.7	1.5	CC	(D)
	SOUTH CAROLINA . . . . .	15	7	2.1	11.5	1.7	3.3	7.9	23.9	17.6	41.2	2.4	1.7	15.8
	GEORGIA . . . . .	30	11	1.7	10.7	1.4	2.5	7.1	29.1	17.3	44.8	1.2	1.2	12.6
	FLORIDA . . . . .	89	17	2.0	10.2	1.7	3.1	7.2	21.1	15.9	35.8	1.0	1.2	9.8
	EAST SOUTH CENTRAL DIVISION . . . . .	87	40	6.4	36.5	5.5	10.5	27.6	92.8	68.5	156.7	3.1	FF	(D)
	KENTUCKY . . . . .	16	11	1.8	12.5	1.5	3.0	8.8	27.7	19.0	45.7	1.3	1.0	14.4
	TENNESSEE . . . . .	34	18	2.1	10.1	1.9	3.4	8.4	29.3	22.7	49.4	.7	2.3	19.6
	ALABAMA . . . . .	21	6	1.5	8.6	1.3	2.5	6.2	19.5	18.6	37.3	.6	1.1	10.6
	MISSISSIPPI . . . . .	16	5	1.0	5.3	.9	1.7	4.2	16.3	8.3	24.3	.5	(NA)	(NA)
	WEST SOUTH CENTRAL DIVISION . . . . .	155	45	7.2	41.9	6.0	11.9	29.5	107.6	76.1	175.8	5.0	FF	(D)
	ARKANSAS . . . . .	20	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	LOUISIANA . . . . .	18	5	.6	3.6	.5	1.1	2.7	7.5	10.2	18.2	.3	.5	3.6
	OKLAHOMA . . . . .	21	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	TEXAS . . . . .	96	26	3.1	17.2	2.5	4.9	11.8	37.3	26.1	61.7	2.7	1.9	16.5
	WEST REGION . . . . .	522	118	17.8	127.9	13.0	23.7	72.9	285.4	239.6	517.3	13.4	16.1	199.1
	MOUNTAIN DIVISION . . . . .	98	14	2.5	17.5	1.9	3.5	11.1	27.9	25.9	50.4	3.0	1.5	10.3
	COLORADO . . . . .	32	8	1.7	12.5	1.2	2.3	8.0	15.8	16.6	29.3	2.5	.8	5.6
	ARIZONA . . . . .	12	2	.4	2.5	.3	.6	1.5	6.9	5.0	11.6	.1	(NA)	(NA)
	PACIFIC DIVISION . . . . .	424	104	15.3	110.4	11.1	20.2	61.8	257.5	213.7	466.9	10.4	14.3	187.2
	WASHINGTON . . . . .	53	12	1.2	7.4	1.0	1.7	5.0	19.4	13.3	30.7	1.3	.5	4.5
	OREGON . . . . .	33	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.1
	CALIFORNIA . . . . .	334	86	13.3	98.9	9.5	17.4	54.0	229.4	194.7	422.1	7.9	13.2	177.6
395	PENS, OFFICE AND ART GOODS . . . . .	966	264	31.7	244.3	22.9	45.3	145.1	556.8	379.2	926.7	19.8	(NA)	(NA)
	NORTHEAST REGION . . . . .	343	110	12.6	98.9	9.3	18.6	60.0	241.0	154.9	394.5	7.7	15.4	192.0
	NEW ENGLAND DIVISION . . . . .	84	26	3.4	29.2	2.6	5.2	17.4	89.8	36.3	125.5	2.9	3.3	59.6
	MASSACHUSETTS . . . . .	41	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	6.9
	RHODE ISLAND . . . . .	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	CONNECTICUT . . . . .	25	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	MIDDLE ATLANTIC DIVISION . . . . .	259	84	9.2	69.7	6.8	13.4	42.6	151.2	118.6	269.0	4.8	12.2	132.4
	NEW YORK . . . . .	142	45	4.0	30.0	2.9	5.5	16.6	63.6	62.1	125.5	1.1	6.2	68.9
	NEW JERSEY . . . . .	65	22	2.4	19.4	1.8	3.5	12.9	48.1	32.6	80.5	2.4	3.0	32.4
	PENNSYLVANIA . . . . .	52	17	2.8	20.2	2.1	4.3	13.1	39.6	23.9	62.9	1.2	2.9	31.0
	NORTH CENTRAL REGION . . . . .	232	78	9.9	84.1	6.4	12.9	45.8	168.3	106.5	273.5	5.1	10.5	129.4
	EAST NORTH CENTRAL DIVISION . . . . .	179	60	6.9	62.4	4.2	8.6	32.4	126.0	79.5	204.6	4.4	7.3	94.6
	OHIO . . . . .	43	15	1.7	13.2	1.0	2.1	7.2	28.8	18.7	47.8	.6	EE	(D)
	INDIANA . . . . .	16	6	.4	3.1	.3	.6	1.8	5.7	4.8	10.5	.1	.88	(D)
	ILLINOIS . . . . .	77	30	3.2	29.5	2.0	4.1	14.8	57.1	40.7	96.9	2.4	3.0	39.7
	MICHIGAN . . . . .	31	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WISCONSIN . . . . .	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	WEST NORTH CENTRAL DIVISION . . . . .	53	18	3.0	21.8	2.1	4.2	13.3	42.3	27.1	68.9	.7	3.2	34.8
	MINNESOTA . . . . .	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.3
	IOWA . . . . .	7	3	1.3	10.7	.9	1.8	5.9	20.9	12.0	32.5	.3	EE	(D)
	MISSOURI . . . . .	23	9	1.1	7.1	.8	1.5	4.5	14.0	9.5	23.4	.3	.9	9.3
	KANSAS . . . . .	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	SOUTH REGION . . . . .	216	44	5.5	31.7	4.5	8.6	21.2	74.3	72.1	144.8	4.1	5.4	56.9
	SOUTH ATLANTIC DIVISION . . . . .	103	20	2.1	12.4	1.6	3.2	8.4	23.3	24.9	48.4	1.0	2.6	29.3
	VIRGINIA . . . . .	13	4	.3	1.5	.2	.4	.9	3.1	2.6	5.7	.1	.2	1.4
	NORTH CAROLINA . . . . .	14	3	.4	2.2	.3	.6	1.4	5.7	6.1	11.8	.3	(NA)	(NA)
	GEORGIA . . . . .	15	8	.7	5.2	.6	1.3	3.6	8.7	12.0	19.8	.1	2.0	21.0
	FLORIDA . . . . .	35	3	.4	2.3	.3	.6	1.7	3.4	2.9	7.4	.4	(NA)	(NA)
	EAST SOUTH CENTRAL DIVISION . . . . .	53	17	2.8	15.1	2.3	4.5	10.4	39.8	39.3	77.0	2.9	2.5	23.4
	KENTUCKY . . . . .	14	4	.4	2.2	.3	.6	1.5	7.0	6.1	11.9	(D)	88	(D)
	TENNESSEE . . . . .	29	13	2.4	12.6	2.0	3.9	8.8	31.8	32.8	63.8	(D)	2.2	19.4
	WEST SOUTH CENTRAL DIVISION . . . . .	60	7	.7	4.2	.5	.9	2.5	11.2	8.0	19.4	.2	.3	4.2
	ARKANSAS . . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	TEXAS . . . . .	41	5	.4	2.7	.3	.6	1.6	7.2	4.5	11.7	.2	.3	3.5
	WEST REGION . . . . .	175	32	3.7	29.6	2.8	5.2	18.0	73.2	45.7	114.0	2.9	3.4	33.8
	MOUNTAIN DIVISION . . . . .	31	4	.4	3.5	.2	.4	1.3	5.6	5.8	11.3	.7	.3	3.8
	COLORADO . . . . .	13	3	.3	2.8	.1	.2	.9	4.5	5.1	9.6	.1	.3	3.3
	PACIFIC DIVISION . . . . .	144	28	3.4	26.1	2.6	4.8	16.8	67.6	39.9	102.6	2.2	3.1	30.1
	CALIFORNIA . . . . .	118	25	3.2	24.5	2.4	4.5	15.8	64.6	38.0	97.8	(D)	2.9	28.2
396	COSTUME JEWELRY AND NOTIONS . . . . .	1 482	437	50.4	323.1	41.1	77.4	212.3	719.6	533.1	1 246.7	33.5	(NA)	(NA)
	NORTHEAST REGION . . . . .	1 063	339	37.3	248.8	30.0	55.8	158.8	489.4	372.4	862.8	21.3	39.9	388.3
	NEW ENGLAND DIVISION . . . . .	397	150	19.6	133.6	16.1	30.0	84.5	276.7	199.3	476.3	12.4	18.2	188.9
	NEW HAMPSHIRE . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	MASSACHUSETTS . . . . .	57	18	3.3	24.7	2.7	4.4	12.2	48.0	31.6	79.3	.6	3.2	56.4
	RHODE ISLAND . . . . .	284	100	10.4	62.3	8.7	16.2	39.8	138.5	103.7	241.2	3.9	9.2	74.7
	CONNECTICUT . . . . .	45	29	5.6	44.5	4.4	8.9	30.8	85.6	63.0	150.2	7.6	5.6	56.0
	MIDDLE ATLANTIC DIVISION . . . . .	666	189	17.7	115.2	13.9	25.8	74.4	212.7	173.1	386.5	8.9	21.7	199.4
	NEW YORK . . . . .	581	152	11.8	75.4	9.4	17.5	48.2	150.6	128.6	278.7	6.1	16.9	159.2
	NEW JERSEY . . . . .	56	26	2.9	18.3	2.4	4.2	13.0	31.6	20.5	53.5	1.7	2.1	17.6
	PENNSYLVANIA . . . . .	29	11	3.0	21.5	2.2	4.1	13.2	30.5	24.0	54.3	1.1	2.7	22.6

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)						
396	COSTUME JEWELRY AND NOTIONS-- CONTINUED													
	NORTH CENTRAL REGION . . . . .	122	28	3.3	20.8	2.5	4.7	12.0	47.9	40.2	87.1	4.2	3.4	32.1
	EAST NORTH CENTRAL DIVISION . . . .	89	19	1.8	12.0	1.4	2.6	6.6	25.2	23.7	48.2	3.1	2.0	17.0
	OHIO . . . . .	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.4
	ILLINOIS . . . . .	37	14	1.3	9.4	1.0	1.9	4.9	19.9	18.7	38.1	2.0	1.5	13.2
	WISCONSIN . . . . .	21	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	1.7
	WEST NORTH CENTRAL DIVISION . . . .	33	9	1.4	8.7	1.1	2.1	5.3	22.7	16.6	39.0	1.2	1.4	15.0
	IOWA . . . . .	9	5	.4	2.7	.3	.7	1.4	6.6	6.6	12.1	.1	.88	(D)
	MISSOURI . . . . .	8	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	NEBRASKA . . . . .	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	SOUTH REGION . . . . .	118	42	7.4	40.4	6.6	12.8	32.4	151.6	100.3	248.0	7.1	6.7	92.8
	SOUTH ATLANTIC DIVISION . . . . .	71	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
	VIRGINIA . . . . .	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	5.5
	NORTH CAROLINA . . . . .	14	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	SOUTH CAROLINA . . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	GEORGIA . . . . .	5	3	2.1	10.8	1.9	3.9	9.4	37.0	23.7	59.7	2.4	1.4	21.7
	FLORIDA . . . . .	30	4	.4	1.9	.4	.7	1.5	4.8	4.5	8.2	(D)	.2	1.3
	EAST SOUTH CENTRAL DIVISION . . . .	18	9	1.6	9.3	1.4	2.8	7.3	47.8	25.7	73.4	1.4	1.7	36.4
	KENTUCKY . . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	TENNESSEE . . . . .	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
	ALABAMA . . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.6
	MISSISSIPPI . . . . .	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
	WEST SOUTH CENTRAL DIVISION . . . .	29	9	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	TEXAS . . . . .	23	7	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	WEST REGION . . . . .	179	28	2.5	13.1	2.1	4.0	9.1	30.7	20.2	50.7	.8	1.6	14.8
	MOUNTAIN DIVISION . . . . .	37	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	MONTANA . . . . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
	PACIFIC DIVISION . . . . .	142	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
	CALIFORNIA . . . . .	122	19	1.8	9.6	1.5	3.0	6.7	21.0	13.9	34.7	.5	1.4	13.1
399	MISCELLANEOUS MANUFACTURES . . . .	7 639	1 617	153.0	1 133.6	119.5	221.9	737.9	2 302.8	1 635.9	3 905.2	106.6	(NA)	(NA)
	NORTHEAST REGION . . . . .	2 592	600	61.1	464.8	47.9	90.3	309.8	989.5	705.9	1 686.3	49.1	61.4	717.7
	NEW ENGLAND DIVISION . . . . .	543	117	12.3	88.3	9.7	17.8	57.8	172.8	122.8	293.6	6.4	12.8	155.5
	MAINE . . . . .	30	4	.5	2.2	.4	.8	1.6	3.6	1.9	5.5	.2	.5	3.2
	NEW HAMPSHIRE . . . . .	23	5	.8	5.7	.7	1.2	3.9	10.2	7.8	17.5	.2	.7	4.9
	VERMONT . . . . .	19	5	.4	2.4	.3	.5	1.6	5.9	3.8	9.7	.4	.3	3.1
	MASSACHUSETTS . . . . .	242	66	7.4	53.0	5.8	10.7	35.6	111.6	71.9	184.2	3.7	7.9	78.5
	RHODE ISLAND . . . . .	127	16	1.4	7.7	1.1	1.9	5.1	15.6	9.7	25.1	.6	1.3	10.3
	CONNECTICUT . . . . .	102	21	2.0	17.3	1.4	2.6	9.8	25.9	27.6	51.6	1.3	2.1	55.4
	MIDDLE ATLANTIC DIVISION . . . . .	2 049	483	48.8	376.5	38.2	72.5	252.0	816.7	583.1	1 392.7	42.7	48.6	562.3
	NEW YORK . . . . .	1 318	289	23.2	169.3	18.3	33.9	110.3	314.9	249.2	562.6	13.4	27.1	272.7
	NEW JERSEY . . . . .	356	104	11.3	87.2	8.6	16.4	57.8	176.2	130.0	305.0	8.3	8.1	92.8
	PENNSYLVANIA . . . . .	375	90	14.3	120.0	11.3	22.2	84.0	325.6	204.0	525.2	21.0	13.3	196.8
	NORTH CENTRAL REGION . . . . .	1 903	465	45.5	347.9	35.6	65.9	222.3	699.5	475.1	1 159.4	30.1	46.3	501.1
	EAST NORTH CENTRAL DIVISION . . . .	1 395	346	35.3	280.1	27.3	51.2	177.5	562.0	386.4	934.3	23.7	37.3	416.9
	OHIO . . . . .	362	96	8.6	66.5	6.6	12.7	42.4	125.2	91.9	213.2	6.1	8.6	94.6
	INDIANA . . . . .	158	35	3.6	29.5	2.7	4.9	17.2	74.7	40.3	114.8	3.9	4.3	52.3
	ILLINOIS . . . . .	432	133	14.8	115.5	11.9	22.2	76.8	219.4	158.9	372.6	7.5	16.0	169.9
	MICHIGAN . . . . .	259	31	2.9	27.1	2.2	4.1	17.9	48.5	28.5	77.6	1.4	4.2	48.3
	WISCONSIN . . . . .	184	51	5.4	41.5	3.9	7.3	23.1	94.2	66.9	156.1	4.8	4.2	51.8
	WEST NORTH CENTRAL DIVISION . . . .	508	119	10.3	67.9	8.2	14.8	44.8	137.5	88.7	225.2	6.4	9.0	84.3
	MINNESOTA . . . . .	117	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	19.0
	IOWA . . . . .	84	19	2.1	15.0	1.6	3.1	9.7	37.7	21.9	59.5	1.2	1.7	21.1
	MISSOURI . . . . .	181	49	3.7	23.7	3.0	5.6	15.8	48.4	32.0	79.9	2.8	3.6	33.0
	NEBRASKA . . . . .	47	8	.6	3.4	.5	.8	2.2	5.4	4.1	9.5	.3	.6	4.8
	KANSAS . . . . .	53	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.9
	SOUTH REGION . . . . .	1 741	311	28.4	186.8	22.6	41.9	122.4	374.1	287.7	656.3	16.7	21.9	194.6
	SOUTH ATLANTIC DIVISION . . . . .	855	131	12.9	88.0	10.4	19.4	57.0	180.4	124.2	301.1	7.8	10.4	95.4
	MARYLAND . . . . .	76	24	1.9	13.7	1.5	3.0	9.0	24.2	21.9	45.2	.9	2.2	20.8
	DISTRICT OF COLUMBIA . . . . .	13	2	.2	1.4	.1	.2	.9	2.5	1.0	3.5	(D)	.2	1.8
	VIRGINIA . . . . .	79	17	1.4	10.0	1.2	2.1	6.5	21.7	16.0	37.4	.7	1.1	10.7
	WEST VIRGINIA . . . . .	29	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.8
	NORTH CAROLINA . . . . .	128	25	2.9	20.0	2.4	4.8	13.0	51.7	29.4	78.6	2.3	1.9	15.3
	SOUTH CAROLINA . . . . .	46	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	9.4
	GEORGIA . . . . .	121	18	2.3	15.3	1.8	3.4	9.2	27.5	19.6	47.2	1.1	1.2	11.8
	FLORIDA . . . . .	347	34	2.7	17.4	2.2	3.6	11.6	31.4	23.4	54.8	1.4	2.3	20.7
	EAST SOUTH CENTRAL DIVISION . . . .	317	85	8.2	50.2	6.5	12.1	33.6	102.5	94.8	194.1	5.2	6.0	50.6
	KENTUCKY . . . . .	66	18	2.0	11.4	1.6	2.9	7.4	22.8	18.1	40.2	1.1	1.8	11.5
	TENNESSEE . . . . .	145	43	4.2	27.1	3.3	6.3	18.7	52.8	51.9	102.2	2.1	3.1	29.7
	ALABAMA . . . . .	74	17	1.5	9.3	1.2	2.3	6.0	22.0	19.9	41.9	1.6	.9	6.7
	MISSISSIPPI . . . . .	32	7	.4	2.3	.3	.7	1.5	5.0	4.9	9.8	.4	.3	2.6
	WEST SOUTH CENTRAL DIVISION . . . .	569	95	7.3	48.6	5.8	10.4	31.8	91.1	68.6	161.1	3.7	5.4	48.5
	ARKANSAS . . . . .	51	12	.8	4.0	.6	1.2	2.6	7.7	6.4	14.1	.2	.6	4.7
	LOUISIANA . . . . .	63	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	7.1
	OKLAHOMA . . . . .	77	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.5
	TEXAS . . . . .	378	66	4.9	33.7	3.9	6.9	21.9	63.0	47.1	111.2	2.6	3.5	31.3

See footnotes at end of table.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

1972 code	Industry and geographic area <sup>1</sup>	1972										1967		
		Establishments		All employees		Production workers			Value added by manufac- ture	Cost of materials <sup>2</sup>	Value of shipments <sup>2</sup>	Capital expendi- tures, new	All employees	Value added by manufac- ture
		Total	With 20 employ- ees or more (number)	Number	Payroll	Number	Man-hours	Wages						
		(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
399	MISCELLANEOUS MANUFACTURES--CON.													
	WEST REGION. . . . .	1 403	241	17.9	134.2	13.4	23.8	83.5	239.8	167.2	403.1	10.7	14.2	161.7
	MOUNTAIN DIVISION. . . . .	287	38	2.8	21.2	2.1	3.8	13.4	43.2	24.0	66.5	2.7	1.9	20.6
	IDAHO. . . . .	22	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	COLORA00 . . . . .	94	14	1.0	7.6	.8	1.3	4.4	16.4	10.4	26.3	.5	.8	7.9
	NEW MEXICO . . . . .	35	2	.2	1.1	.2	.3	.7	2.3	1.3	3.6	.2	(NA)	(NA)
	ARIZONA . . . . .	57	8	.5	3.7	.4	.7	2.4	7.6	4.3	12.0	.3	.3	3.1
	UTAH . . . . .	35	7	.6	5.2	.4	.8	3.5	8.9	4.0	12.9	.9	8B	(D)
	NEVAA0 . . . . .	17	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	PACIFIC DIVISION . . . . .	1 116	203	15.1	113.0	11.3	20.0	70.1	196.6	143.2	336.6	8.0	12.3	141.1
	WASHINGTON . . . . .	121	20	1.2	10.7	.9	1.6	7.0	17.8	9.9	27.8	.8	.8	10.1
	OREGON . . . . .	82	18	1.0	7.3	.8	1.3	4.5	13.5	8.5	21.4	.4	.8	8.1
	CALIFORNIA . . . . .	878	160	12.2	92.4	9.1	16.3	57.4	161.3	121.9	280.5	6.0	10.3	121.8
	HAWAII . . . . .	29	5	.6	2.4	.5	.8	1.1	3.8	2.7	6.5	.7	.3	1.1

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (2) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees BB--250 to 499 employees CC--500 to 999 employees EE--1,000 to 2,499 employees FF--2,500 employees and over

<sup>2</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Miscellaneous manufacturing industries (SIC 39)	Jewelry, silverware, and plated ware (SIC 391)	Musical instruments (SIC 393)	Toys and sporting goods (SIC 394)	Pens, pencils, office and art supplies (SIC 395)	Costume jewelry and notions (SIC 396)	Miscellaneous manufactures (SIC 399)
ESTABLISHMENTS, TOTAL. . . . .NUMBER. . . . .	15 187	2 296	344	2 460	966	1 482	7 639
WITH 1 TO 19 EMPLOYEES. . . . .	11 433	1 823	233	1 608	702	1 045	6 022
WITH 20 TO 99 EMPLOYEES. . . . .	2 827	376	52	551	192	324	1 332
WITH 100 EMPLOYEES OR MORE. . . . .	927	97	59	301	72	113	285
ALL EMPLOYEES, AVERAGE FOR YEAR. . . . .1,000. . . . .	445.6	53.2	24.5	132.7	31.7	50.4	153.0
PAYROLL FOR YEAR, ALL EMPLOYEES. . . . .MILLION DOLLARS. . . . .	3 179.8	424.5	173.4	880.9	244.3	323.1	1 133.6
PRODUCTION WORKERS:							
AVERAGE FOR YEAR. . . . .1,000. . . . .	349.1	40.2	19.7	106.4	22.9	41.1	119.5
MARCH. . . . .	332.1	39.4	18.7	96.9	22.0	39.5	115.6
MAY. . . . .	342.3	39.6	19.3	102.8	22.7	40.4	117.5
AUGUST. . . . .	357.9	40.0	20.0	111.4	23.4	41.8	121.3
NOVEMBER. . . . .	367.3	41.8	20.9	114.6	23.6	42.8	123.6
MAN-HOURS. . . . .MILLIONS. . . . .	660.9	76.4	38.3	201.6	45.3	77.4	221.9
JANUARY-MARCH. . . . .	155.6	18.6	9.3	44.9	10.9	18.7	53.3
APRIL-JUNE. . . . .	165.2	19.2	9.5	50.1	11.4	19.5	55.4
JULY-SEPTEMBER. . . . .	164.2	18.1	9.0	51.8	11.3	19.0	55.0
OCTOBER-DECEMBER. . . . .	175.9	20.5	10.6	54.7	11.7	20.1	58.3
WAGES. . . . .MILLION DOLLARS. . . . .	2 084.4	265.9	123.9	599.4	145.1	212.3	737.9
COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . .	5 554.3	1 002.7	296.6	1 706.8	379.2	533.1	1 635.9
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED. . . . .	4 793.3	844.2	228.4	1 492.3	330.8	443.2	1 454.3
COST OF RESALES. . . . .	486.5	106.5	60.5	146.3	32.5	44.7	95.9
FUELS CONSUMED. . . . .	35.7	3.7	2.0	9.7	2.4	2.7	15.1
PURCHASED ELECTRIC ENERGY. . . . .	62.5	6.3	2.5	19.2	5.2	6.9	22.2
CONTRACT WORK. . . . .	176.3	41.8	3.2	39.2	8.4	35.6	48.2
VALUE OF SHIPMENTS, INCLUDING RESALES <sup>1</sup> . . . . .	12 173.2	1 812.5	617.5	3 662.6	926.7	1 248.7	3 905.2
VALUE OF RESALES. . . . .	678.2	125.3	78.3	219.4	49.7	76.7	128.9
VALUE ADDED BY MANUFACTURE. . . . .	6 768.7	850.8	339.3	1 999.3	556.8	719.6	2 302.8
MANUFACTURERS' INVENTORIES:							
BEGINNING OF YEAR, TOTAL. . . . .	2 102.9	409.1	134.5	665.4	144.6	191.5	557.8
FINISHED PRODUCTS. . . . .	880.5	205.5	34.0	298.5	51.4	78.9	212.0
WORK IN PROCESS. . . . .	535.0	95.8	63.5	141.5	40.9	56.8	136.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	687.3	107.6	36.9	225.4	52.3	55.8	209.2
END OF YEAR, TOTAL. . . . .	2 259.6	453.1	151.6	704.0	158.5	195.7	596.6
FINISHED PRODUCTS. . . . .	948.6	229.8	38.1	316.5	55.6	78.1	230.5
WORK IN PROCESS. . . . .	580.7	111.3	68.8	152.7	43.4	58.1	146.5
MATERIALS, SUPPLIES, FUEL, ETC. . . . .	730.3	112.1	44.7	234.8	59.5	59.5	219.6
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL. . . . .	333.9	23.1	11.4	127.4	21.1	36.0	115.0
NEW PLANT AND EQUIPMENT, TOTAL. . . . .	313.6	21.9	10.6	121.2	19.8	33.5	106.6
NEW STRUCTURES AND ADDITIONS TO PLANT. . . . .	92.6	6.3	2.9	40.4	4.2	9.0	29.8
NEW MACHINERY AND EQUIPMENT. . . . .	221.0	15.6	7.8	80.8	15.5	24.5	76.8
USED PLANT AND EQUIPMENT. . . . .	20.2	1.2	.7	6.2	1.3	2.5	8.4

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



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# Jewelry, Silverware, and Plated Ware

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# EXPLANATORY TEXT

## JEWELRY, SILVERWARE, AND PLATED WARE

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

**3911—Jewelry, Precious Metal**

**3914—Silverware, Plated Ware, and Stainless Steel Ware\***

**3915—Jewelers' Findings and Materials, and Lapidary Work\***

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3911.—JEWELRY, PRECIOUS METAL

This industry comprises establishments primarily engaged in the manufacture of jewelry and other articles worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. (Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961). For a detailed list of products of industry 3911, refer to table 6A, product codes 39111 12 to 39112 98.

Value of shipments and other receipts of the Jewelry, Precious Metal, Industry in 1972 totaled \$1,125 million. This included shipments of precious metal jewelry (primary products) valued at \$947 million, shipments of other products

(secondary products) valued at \$79 million, and miscellaneous receipts (mainly resales) of \$98 million.

Shipments of precious metal jewelry (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 91 percent.

Shipments of precious metal jewelry (primary products) from establishments classified in industry 3911 in 1972 represented 96 percent (coverage ratio) of these products valued at \$982 million shipped by all industries. In 1967, the coverage ratio was also 96 percent. Other industries shipping jewelry, precious metal, included Industry 3961, Costume Jewelry, valued at \$13 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3911, these establishments accounted for 13 percent of value of shipments.

### INDUSTRY 3914.—SILVERWARE AND PLATED WARE (Short Title)

This industry comprises establishments primarily engaged in the manufacture of flatware (including knives, forks, and spoons), hollowware, toiletware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel. For a detailed list of products of industry 3914, refer to table 6A, product codes 39141 11 to 39142 61.

Value of shipments and other receipts of the Silverware and Plated Ware Industry in 1972 totaled \$365 million. This included shipments of silverware and plated ware (primary products) valued at \$308 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly resales) of \$39 million.

Shipments of silverware and plated ware (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent.

Shipments of silverware and plated ware (primary products) from establishments classified in industry 3914 in 1972 represented 97 percent (coverage ratio) of these products valued at \$318 million shipped by all industries. In 1967, the coverage ratio was 99 percent.

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\* Note that the "short title" for this industry is used throughout the report.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3914, these establishments accounted for 3 percent of value of shipments.

#### **INDUSTRY 3915.—JEWELERS' MATERIALS AND LAPIDARY WORK (Short Title)**

This industry comprises establishments primarily engaged in manufacturing unassembled jewelry parts and stock shop products such as sheet, wire, and tubing; establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing or faceting stones from natural or manmade precious or semiprecious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sewing, and peeling of real or cultured pearls, but does not include the manufacture of artificial pearls which are classified in industry 3961. For a detailed list of products of industry 3915, refer to table 6A, product codes 39151 13 to 39152 31.

The 1972 definition of this industry has been revised from that used in the 1967 SIC manual. Also, a new SIC number and title have been assigned. Two separate old industries: SIC Industry 3912, Jewelers' Findings and Materials, and SIC Industry 3913, Lapidary Work, were combined to form new Industry 3915, Jewelers' Materials and Lapidary Work. The

effect of the revisions on the data are summarized in Table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC. As can be seen from table 1C, 237 establishments with 5.5 thousand total employment and \$73.5 million value added would have been classified in old industry 3912 and 328 establishments with 2.3 thousand total employment and \$41.8 million value added would have been classified in old industry 3913.

Value of shipments and other receipts of the Jewelers' Materials and Lapidary Work Industry in 1972 totaled \$326 million. This included shipments of jewelers' findings and materials and lapidary work (primary products) valued at \$290 million, shipments of other products (secondary products) valued at \$14 million, and miscellaneous receipts (mainly resales) of \$22 million.

Shipments of jewelers' materials and lapidary work (primary products) in 1972 represented 95 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 92 percent.

Shipments of jewelers' materials and lapidary work (primary products) from establishments classified in industry 3915 in 1972 represented 86 percent (coverage ratio) of these products valued at \$336 million shipped by all industries. In 1967, the coverage ratio was 87 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3915, these establishments accounted for 16 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3911.--JEWELRY, PRECIOUS METAL															
1972 Census.....	1,524	315	32.6	267.2	23.8	44.6	155.8	536.0	612.1	1,124.6	10.3	(NA)	288.6	92	96
1971 ASM .....	(NA)	(NA)	34.1	252.4	24.7	47.3	150.1	476.6	508.7	962.7	6.9	113.4	277.0	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	34.2	240.1	25.3	47.4	148.4	442.6	483.1	913.5	8.9	114.5	228.2	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	32.0	225.4	23.2	43.6	137.8	429.6	477.2	892.1	*10.0	(149.1)	206.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	32.1	212.7	23.7	45.7	134.2	414.0	471.8	867.0	*9.1	(S)	178.7	(NA)	(NA)
1967 Census.....	1,489	306	29.9	182.6	22.8	44.1	113.6	352.7	397.7	741.8	5.9	(S)	148.1	91	96
1966 ASM .....	(NA)	(NA)	29.3	161.3	22.2	44.3	94.9	327.9	375.9	693.8	5.2	(NA)	135.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	28.4	144.8	21.6	45.0	87.8	314.1	319.3	620.5	3.9	(NA)	124.2	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	24.1	134.3	17.5	36.0	83.6	240.0	272.8	508.6	3.5	50.1	104.9	(NA)	(NA)
1963 Census.....	1,438	218	23.6	125.6	17.5	35.6	79.3	234.9	248.4	481.9	3.7	47.9	105.3	92	97
1962 ASM .....	(NA)	(NA)	21.7	112.9	16.1	34.6	72.5	203.9	211.0	411.4	1.8	44.5	80.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	21.4	106.5	15.8	33.4	67.8	189.6	198.0	386.5	2.4	(NA)	82.4	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	20.8	102.6	15.5	32.5	65.5	189.0	182.3	362.7	2.4	(NA)	78.5	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	20.6	99.1	15.5	32.1	64.1	174.6	173.5	348.3	*2.8	(NA)	68.4	(NA)	(NA)
1958 Census .....	1,302	183	21.2	95.1	15.9	30.7	60.7	166.6	160.5	327.3	3.5	(NA)	70.6	95	98
INDUSTRY 3914.--SILVERWARE AND PLATED WARE															
1972 Census.....	205	71	12.5	101.6	9.7	19.3	73.8	198.5	174.3	364.7	6.3	(NA)	102.4	94	97
1971 ASM .....	(NA)	(NA)	12.5	95.4	9.7	19.0	68.1	190.8	148.5	339.9	8.8	105.7	97.2	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	13.0	91.9	10.4	20.3	69.7	180.8	138.4	321.3	7.1	100.2	95.9	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	14.5	100.8	12.0	24.3	78.3	214.1	156.9	365.4	*10.4	106.4	101.7	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	14.7	98.1	12.5	25.1	77.7	206.0	156.3	354.2	15.4	99.8	96.5	(NA)	(NA)
1967 Census.....	195	82	14.9	95.8	12.6	26.4	76.5	198.0	148.2	339.1	5.7	90.2	83.0	95	99
1966 ASM .....	(NA)	(NA)	15.1	93.4	12.8	27.2	74.3	189.6	144.4	325.1	*8.2	(NA)	77.1	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	14.1	82.3	11.9	25.0	64.9	159.9	130.7	288.3	*6.3	(NA)	65.8	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	14.3	78.9	11.9	24.3	61.5	137.0	121.4	261.1	*3.5	69.5	60.9	(NA)	(NA)
1963 Census.....	209	87	13.2	70.9	10.9	22.1	54.8	130.7	108.9	238.9	2.7	67.3	60.6	95	98
1962 ASM .....	(NA)	(NA)	14.0	72.0	11.5	23.4	55.8	130.0	107.6	235.7	*2.4	65.1	54.8	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	14.1	68.0	11.6	23.1	52.0	130.2	102.7	232.9	2.2	(NA)	52.2	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	14.4	68.3	11.8	23.3	51.4	123.9	100.1	221.7	(S)	(NA)	52.9	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	14.4	68.5	11.8	23.9	52.7	121.3	99.0	217.3	(S)	(NA)	51.7	(NA)	(NA)
1958 Census .....	209	87	13.9	62.3	11.2	21.9	47.6	109.7	85.2	196.1	2.5	(NA)	47.7	95	98
INDUSTRY 3915.--JEWELERS' MATERIALS AND LAPIDARY WORK															
1972 Census <sup>2</sup> .....	568	88	8.0	55.8	6.7	12.5	36.4	117.2	217.8	325.6	5.3	(NA)	62.5	95	86
1971 ASM .....	(NA)	(NA)	*6.6	*49.5	*5.2	*10.5	*33.9	*97.2	*167.4	*257.2	*5.8	*46.8	*49.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	6.5	47.0	5.2	10.3	30.8	82.2	152.9	234.9	4.1	41.7	41.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	8.1	47.9	6.8	12.0	30.3	87.7	160.0	257.3	*3.8	41.6	44.0	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	7.1	44.0	5.9	11.0	27.7	87.3	156.6	243.4	*4.4	(S)	45.9	(NA)	(NA)
1967 Census.....	528	84	7.4	41.5	5.7	11.6	26.8	90.2	131.8	218.1	2.5	(S)	39.3	(NA)	(NA)
1966 ASM .....	(NA)	(NA)	6.6	33.6	5.4	10.0	22.2	68.8	116.2	182.8	*1.2	(NA)	30.9	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.3	31.2	5.1	10.1	20.7	59.1	108.4	165.7	*2.0	(NA)	30.1	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	6.5	30.3	5.2	10.4	20.5	49.9	98.0	152.8	*1.3	16.4	*24.5	(NA)	(NA)
1963 Census.....	546	82	6.3	29.1	5.1	10.0	20.1	50.1	84.5	137.9	1.7	15.0	27.8	(NA)	(NA)
1962 ASM .....	(NA)	(NA)	6.8	29.8	5.6	10.6	19.7	55.3	66.0	119.7	*1.2	14.2	31.5	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	6.8	28.0	5.7	10.7	19.2	54.5	63.7	116.0	*1.4	(NA)	29.8	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	6.2	26.5	5.1	9.8	17.9	52.4	56.8	105.8	(NA)	(NA)	26.4	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	6.2	26.2	5.1	10.1	18.2	47.7	63.8	110.0	(NA)	(NA)	27.7	(NA)	(NA)
1958 Census .....	574	73	6.1	24.5	5.1	9.8	17.7	41.4	54.8	97.9	.9	(NA)	22.5	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	1972 industry 3911	1972 industry 3914	1972 industry 3915	1967 industry 3912	1967 industry 3913
1972.....	1,497	189	567	(X)	(X)
1967.....	1,477	186	(X)	232	296
1963.....	1,428	201	(X)	228	318

Although 1972 industry 3915 is a combination of 1967 industries 3912 and 3913, the number of companies is not separately available for 1967 and 1963 on the new SIC basis.

(NA) Not available. (X) Not applicable. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The 1972 data are not strictly comparable to 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the totals for industry 3915 on the new SIC basis. For 1971 and prior years, they are the combined totals for industries 3912 and 3913 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the 1972 establishment count for industry 3915 on the new SIC basis is not necessarily identical to the combined establishment count for industries 3912 and 3913 on the old SIC basis (see table 1C). However, the effect of these changes is estimated to be less than one percent of the total value of shipments for 1972 industry 3915.



TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3911.--JEWELRY, PRECIOUS METAL											
1972 Census.....	8,196	(NA)	73	1,874	3.49	.56	.80	(NA)	15,966	51	11.67
1971 ASM.....	7,402	3,330	72	1,915	3.17	.53	.79	.12	13,977	53	10.08
1970 ASM.....	7,020	3,350	74	1,874	3.13	.53	.79	.12	12,942	54	9.34
1969 ASM.....	7,044	4,660	73	1,879	3.16	.53	.79	.17	13,425	53	9.85
1968 ASM.....	6,626	(S)	74	1,928	2.94	.54	.79	(S)	12,897	51	9.06
1967 Census.....	6,104	(S)	76	1,934	2.58	.54	.78	(S)	11,791	52	6.71
1966 ASM.....	5,498	(NA)	76	1,995	2.14	.54	.77	(NA)	11,178	49	7.40
1965 ASM.....	5,099	(NA)	76	2,086	1.95	.51	.75	(NA)	11,049	46	6.97
1964 ASM.....	5,581	2,080	73	2,057	2.32	.54	.80	.10	9,972	56	6.67
1963 Census.....	5,334	2,030	74	2,040	2.23	.52	.78	.10	9,975	53	6.60
1962 ASM.....	5,193	2,050	74	2,151	2.10	.51	.79	.11	9,381	55	5.89
1961 ASM.....	4,980	(NA)	74	2,120	2.03	.51	.79	(NA)	8,865	56	5.68
1960 ASM.....	4,938	(NA)	74	2,101	2.02	.50	.79	(NA)	9,095	54	5.82
1959 ASM.....	4,813	(NA)	75	2,072	1.99	.50	.78	(NA)	8,476	57	5.43
1958 Census.....	4,488	(NA)	75	1,931	1.97	.49	.78	(NA)	7,859	57	5.42
INDUSTRY 3914.--SILVERWARE AND PLATED WARE											
1972 Census.....	8,120	(NA)	78	1,990	3.81	.48	.76	(NA)	15,848	51	10.26
1971 ASM.....	7,632	8,460	78	1,959	3.58	.44	.72	.32	15,264	50	10.04
1970 ASM.....	7,069	7,710	80	1,952	3.43	.43	.72	.31	13,908	51	8.91
1969 ASM.....	6,952	7,340	83	2,025	3.22	.43	.71	.29	14,766	47	8.81
1968 ASM.....	6,673	6,790	85	2,008	3.10	.44	.72	.28	14,014	48	8.21
1967 Census.....	6,424	6,050	85	2,093	2.89	.44	.72	.27	13,281	48	7.49
1966 ASM.....	6,171	(NA)	84	2,131	2.73	.44	.73	(NA)	12,552	49	6.97
1965 ASM.....	5,822	(NA)	84	2,098	2.59	.45	.74	(NA)	11,311	51	6.39
1964 ASM.....	5,515	4,860	83	2,047	2.53	.47	.77	.27	9,570	58	5.64
1963 Census.....	5,353	5,100	82	2,033	2.47	.46	.76	.28	9,868	54	5.90
1962 ASM.....	5,157	4,650	83	2,029	2.39	.46	.76	.28	9,310	55	5.66
1961 ASM.....	4,821	(NA)	82	1,984	2.25	.44	.73	(NA)	9,236	52	5.64
1960 ASM.....	4,750	(NA)	82	1,969	2.21	.45	.76	(NA)	8,626	55	5.33
1959 ASM.....	4,759	(NA)	82	2,019	2.21	.46	.77	(NA)	8,426	56	5.08
1958 Census.....	4,499	(NA)	81	1,946	2.18	.43	.75	(NA)	7,921	57	5.02
INDUSTRY 3915.--JEWELERS' MATERIALS AND LAPIDARY WORK											
1972 Census <sup>1</sup> .....	6,975	(NA)	84	1,866	2.91	.67	.84	(NA)	14,650	48	9.38
1971 ASM.....	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1970 ASM.....	7,231	6,410	80	1,981	2.99	.65	.85	.18	12,646	57	7.98
1969 ASM.....	5,914	5,140	84	1,765	2.53	.62	.81	.16	10,827	55	7.31
1968 ASM.....	6,197	(S)	83	1,864	2.52	.64	.82	(S)	12,296	50	7.94
1967 Census.....	5,608	(S)	77	2,035	2.31	.60	.79	(S)	12,189	46	7.78
1966 ASM.....	5,091	(NA)	82	1,852	2.22	.64	.82	(NA)	10,424	49	6.88
1965 ASM.....	4,952	(NA)	81	1,980	2.05	.65	.84	(NA)	9,381	53	5.85
1964 ASM.....	4,662	2,520	80	2,000	1.97	.64	.84	.11	7,677	61	4.80
1963 Census.....	4,619	2,380	81	1,961	2.01	.61	.82	.11	7,952	58	5.01
1962 ASM.....	4,382	2,090	82	1,893	1.86	.55	.80	.12	8,132	54	5.22
1961 ASM.....	4,118	(NA)	84	1,877	1.79	.55	.79	(NA)	8,015	51	5.09
1960 ASM.....	4,274	(NA)	82	1,922	1.83	.54	.79	(NA)	8,452	51	5.35
1959 ASM.....	4,226	(NA)	82	1,980	1.80	.58	.82	(NA)	7,694	55	4.72
1958 Census.....	4,016	(NA)	84	1,922	1.81	.56	.81	(NA)	6,787	59	4.22

(NA) Not available. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>The 1972 data are not strictly comparable to 1971 and prior years (see footnote 2, table 1A).

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)	(1,000)	(million dollars)	(million dollars)	(number)	(number)	(1,000)	(million dollars)	(million dollars)
New Industry 3915--Jewelers' Materials and Lapidary Work...	568	88	8.0	117.2	325.6	(X)	(X)	(X)	(X)	(X)
Old Industry 3912--Jewelers' Findings and Materials.....	237	62	5.5	73.5	166.8	237	62	5.5	73.5	166.8
Old Industry 3913--Lapidary Work.....	331	26	2.5	43.7	158.7	328	25	2.3	41.8	155.8

(X) Not applicable.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3911-- JEWELRY, PRECIOUS METAL													
UNITED STATES. . . . . E1	1 524	315	32.6	267.2	23.8	44.6	155.8	536.0	612.1	1 124.6	10.3	29.9	352.7
NORTHEAST REGION . . . . . E1	1 110	253	24.7	207.7	17.8	33.2	116.1	414.0	511.0	903.3	(D)	23.5	284.3
NEW ENGLAND DIVISION . . . . .	264	81	10.5	80.1	7.7	14.4	43.1	154.4	116.9	265.1	(D)	10.5	115.3
MASSACHUSETTS. . . . .	62	25	4.2	37.1	2.6	5.3	16.8	58.7	44.8	100.7	(D)	4.7	48.9
RHODE ISLAND. . . . .	193	56	6.2	42.5	5.1	9.0	26.1	94.8	71.4	162.9	(D)	5.7	65.9
MIDDLE ATLANTIC DIVISION . . . E1	846	172	14.2	127.7	10.1	18.9	73.0	259.6	394.2	638.2	(D)	13.0	169.0
NEW YORK . . . . . E1	729	145	11.6	103.9	8.1	14.9	58.8	216.7	350.2	553.1	(D)	10.2	139.0
NEW JERSEY . . . . .	64	21	2.2	20.6	1.6	3.3	12.3	36.0	35.9	70.4	(D)	2.5	25.8
PENNSYLVANIA . . . . . E5	53	6	.4	3.2	.3	.6	2.0	6.9	8.1	14.8	(D)	.4	4.2
NORTH CENTRAL REGION . . . . . E1	127	25	2.9	23.6	2.1	4.0	14.7	48.5	36.6	84.8	.6	3.7	36.9
EAST NORTH CENTRAL DIVISION. . E1	108	17	2.2	18.8	1.6	3.0	11.6	36.6	30.6	67.2	.4	2.7	32.3
OHIO . . . . . E3	28	3	.3	2.8	.3	.5	1.8	5.5	4.8	10.1	(Z)	.88	(D)
INDIANA . . . . .	17	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . . E2	35	6	.7	5.0	.5	.8	3.3	12.2	9.2	20.8	.2	.8	8.7
MICHIGAN . . . . . E2	23	5	.4	3.6	.3	.5	2.0	6.6	8.0	14.4	.1	.5	6.7
WEST NORTH CENTRAL DIVISION. . .	19	8	.7	4.8	.5	1.1	3.2	12.0	6.0	17.6	.2	1.0	4.6
MINNESOTA . . . . .	8	2	.4	2.8	.4	.7	2.0	8.4	3.5	11.7	(D)	CC	(D)
MISSOURI . . . . .	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.8
SOUTH REGION . . . . . E1	98	14	2.1	13.3	1.6	3.2	9.1	31.3	26.4	57.0	(D)	.8	8.1
SOUTH ATLANTIC DIVISION. . . . E1	48	5	.5	3.9	.4	1.0	2.7	7.3	8.7	15.7	(D)	AA	(D)
FLORIDA . . . . .	30	4	.4	3.0	.3	.8	2.0	5.4	7.2	12.5	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . E1	38	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.8
OKLAHOMA . . . . .	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . . E1	28	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	5.6
WEST REGION. . . . . E1	189	23	2.9	22.6	2.3	4.1	15.9	42.2	38.1	79.4	.8	2.0	23.3
MOUNTAIN DIVISION. . . . .	30	6	1.2	7.0	.9	1.7	4.7	10.4	11.5	21.9	.2	.7	4.3
NEW MEXICO . . . . .	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
UTAH . . . . .	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
PACIFIC DIVISION . . . . . E2	159	17	1.8	15.6	1.4	2.5	11.3	31.8	26.6	57.5	.6	1.3	19.0
WASHINGTON . . . . . E5	18	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
CALIFORNIA . . . . . E1	127	11	1.3	12.4	1.1	1.9	9.0	25.8	21.2	46.4	(D)	.9	15.8

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture	
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages							
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)	
3914-- SILVERWARE AND PLATED WARE														
UNITED STATES. . . . .	205	71	12.5	101.6	9.7	19.3	73.8	198.5	174.3	364.7	6.3	14.9	198.0	
NORTHEAST REGION . . . . .	133	53	10.9	89.4	8.5	17.2	65.7	169.5	152.1	315.8	(0)	13.2	179.7	
NEW ENGLAND DIVISION . . . . .	58	29	6.7	55.4	4.8	10.2	38.2	106.4	99.8	200.7	(0)	8.7	126.5	
MASSACHUSETTS. . . . .	28	15	2.8	22.4	2.2	4.3	14.7	52.2	34.1	82.6	(0)	3.2	44.2	
RHODE ISLAND . . . . .	10	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)	
CONNECTICUT. . . . .	19	11	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)	
MIDDLE ATLANTIC DIVISION . . . . .	75	24	4.2	34.0	3.7	7.0	27.4	63.1	52.4	115.1	(0)	4.5	53.2	
NEW YORK . . . . .	44	15	3.6	29.2	3.1	6.0	23.9	54.3	43.7	98.0	(0)	3.8	46.7	
NEW JERSEY . . . . .	20	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)	
PENNSYLVANIA . . . . .	E1	11	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)	
NORTH CENTRAL REGION . . . . .	25	8	.9	7.2	.6	1.0	4.9	18.1	15.4	32.3	.3	9.0	9.6	
EAST NORTH CENTRAL DIVISION. . . . .	21	6	.8	6.6	.5	.9	4.5	17.1	15.0	31.0	.3	CC	(0)	
ILLINOIS . . . . .	11	5	.6	5.5	.4	.7	3.6	13.8	12.8	25.5	.3	.7	6.9	
SOUTH REGION . . . . .	24	7	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.5	5.7	
SOUTH ATLANTIC DIVISION. . . . .	12	4	.5	3.3	.4	.7	2.0	6.3	3.1	9.1	(0)	BB	(0)	
MARYLAND . . . . .	4	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)	
3915-- JEWELERS MATS., LAPIDARY WORK														
UNITED STATES. . . . .	E1	568	88	8.0	55.8	6.7	12.5	36.4	117.2	217.8	325.6	5.3	7.4	90.2
NORTHEAST REGION . . . . .	E1	474	79	7.0	49.5	5.9	11.0	32.0	103.7	201.7	296.9	(0)	6.9	82.1
NEW ENGLAND DIVISION . . . . .	E1	193	48	4.4	29.8	3.7	6.9	20.3	54.4	49.7	99.1	(0)	4.3	42.6
MASSACHUSETTS. . . . .	E1	24	12	1.1	6.9	.9	1.7	4.9	11.0	12.4	22.2	(0)	.8	8.5
RHODE ISLAND . . . . .	E1	165	35	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION . . . . .	E1	281	31	2.6	19.6	2.2	4.1	11.7	49.3	152.0	197.8	(0)	2.6	39.5
NEW YORK . . . . .	E1	249	22	2.0	14.9	1.7	3.2	8.7	39.1	133.6	170.1	(0)	1.9	33.1
NEW JERSEY . . . . .	E1	23	6	.5	3.6	.4	.7	2.1	7.3	12.9	19.6	(0)	(NA)	(NA)
NORTH CENTRAL REGION . . . . .	E2	29	4	.5	3.6	.4	.8	2.4	7.7	5.5	12.5	.2	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	E1	23	3	.3	2.7	.2	.5	1.7	6.4	4.9	10.6	.2	.2	5.8
WEST NORTH CENTRAL DIVISION. . . . .	E3	6	1	.2	1.0	.2	.3	.7	1.3	.6	1.9	.1	(NA)	(NA)
WEST REGION. . . . .	E3	34	4	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MOUNTAIN DIVISION. . . . .	E2	14	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
PACIFIC DIVISION . . . . .	E4	20	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA . . . . .	E4	17	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E10--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. For States with more than 150 employees, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over



(See appendix. Explanation of Terms)

Item	Jewelry, precious metal (SIC 3911)	Silverware and plated ware (SIC 3914)	Jewelers' materials and lapi- dary work (SIC 3915)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . PERCENT .	92	94	95
COVERAGE RATIO <sup>2</sup> . . . . .00 . .	96	97	86
ESTABLISHMENTS, TOTAL . . . . .NUMBER	1 524	205	56
WITH 1 TO 19 EMPLOYEES . . . . .00 . .	1 209	134	480
WITH 20 TO 99 EMPLOYEES . . . . .00 . .	253	47	77
WITH 100 EMPLOYEES OR MORE . . . . .00 . .	62	24	11
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . .1,000	32.6	12.5	8.0
PAYROLL FOR YEAR, ALL EMPLOYEES . . . MILLION DOLLARS .	267.2	101.6	55.8
PRODUCTION WORKERS:			
AVERAGE FOR YEAR . . . . .1,000	23.8	9.7	6.7
MARCH . . . . .00 . .	23.3	9.4	6.6
MAY . . . . .00 . .	23.4	9.6	6.6
AUGUS. . . . .00 . .	23.6	9.7	6.7
NOVEMBER . . . . .00 . .	24.8	10.0	7.0
MAN-HOURS . . . . .MILLIONS	44.6	19.3	12.5
JANUARY-MARCH . . . . .00 . .	10.9	4.7	3.1
APRIL-JUNE . . . . .00 . .	11.2	4.9	3.2
JULY-SEPTEMBER . . . . .00 . .	10.5	4.6	3.0
OCTOBER-DECEMBER . . . . .00 . .	12.0	5.1	3.3
WAGES . . . . .MILLION DOLLARS	155.8	73.8	36.4
COST OF MATERIALS, ETC., TOTAL . . . . .00 . .	612.1	174.3	217.8
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED .00 . .	510.9	142.4	192.2
COST OF RESALES . . . . .69.6	69.6	23.4	13.6
FUELS CONSUMED . . . . .00 . .	1.0	2.2	.5
PURCHASED ELECTRIC ENERGY . . . . .00 . .	2.9	2.4	1.1
CONTRACT WORK . . . . .00 . .	27.7	3.9	10.4
VALUE OF SHIPMENTS, INCLUDING REALES . . . . .00 . .	1 124.6	364.7	325.6
VALUE OF REALES . . . . .00 . .	79.7	30.2	15.5
VALUE ADDED BY MANUFACTURE . . . . .00 . .	536.0	198.5	117.2
MANUFACTURERS' INVENTORIES:			
BEGINNING OF YEAR, TOTAL . . . . .00 . .	259.3	97.0	51.6
FINISHED PRODUCTS . . . . .00 . .	131.7	43.9	29.2
WORK IN PROCESS . . . . .00 . .	52.0	31.4	12.2
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 . .	75.5	21.6	10.2
END OF YEAR, TOTAL . . . . .00 . .	288.6	102.4	62.5
FINISHED PRODUCTS . . . . .00 . .	147.7	46.9	35.6
WORK IN PROCESS . . . . .00 . .	59.5	36.5	15.3
MATERIALS, SUPPLIES, FUEL, ETC. . . . .00 . .	81.4	18.9	11.7
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . .00 . .	10.6	7.2	5.4
NEW PLANT AND EQUIPMENT, TOTAL . . . . .00 . .	10.3	6.3	5.3
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . .00 . .	3.8	1.2	1.3
NEW MACHINERY AND EQUIPMENT . . . . .00 . .	6.5	5.2	4.1
USED PLANT AND EQUIPMENT . . . . .00 . .	.3	.9	.1

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments  (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3911-- JEWELRY, PRECIOUS METAL											
ESTABLISHMENTS, TOTAL, . . . . . E1	1 524	32.6	267.2	23.8	44.6	155.8	536.0	612.1	1 124.6	10.3	288.6
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E8	667	1.2	8.8	1.1	1.7	5.4	23.8	28.4	51.9	.3	13.8
5 TO 9 EMPLOYEES . . . . . E6	307	2.1	15.9	1.5	2.8	10.0	32.5	39.6	72.1	.4	17.6
10 TO 19 EMPLOYEES . . . . . E1	235	3.1	26.7	2.3	4.3	16.6	56.3	71.4	125.6	.7	24.8
20 TO 49 EMPLOYEES . . . . .	177	5.4	44.5	4.0	7.6	26.1	89.5	99.1	184.4	1.7	35.6
50 TO 99 EMPLOYEES . . . . . E1	76	5.1	40.2	3.7	7.0	25.3	77.3	88.7	162.0	1.3	34.7
100 TO 249 EMPLOYEES . . . . .	41	6.3	50.1	5.0	9.4	32.5	102.0	88.2	185.1	3.0	45.0
250 TO 499 EMPLOYEES . . . . .	18	6.1	47.4	4.4	8.0	27.5	93.5	166.6	254.1	2.1	95.7
500 TO 999 EMPLOYEES . . . . .	2	3.3	33.6	1.8	3.8	12.3	61.1	30.0	89.4	.8	21.4
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	704	2.0	14.4	1.7	2.8	8.9	38.0	44.9	82.9	.5	23.2
3914-- SILVERWARE AND PLATED WARE											
ESTABLISHMENTS, TOTAL, . . . . .	205	12.5	101.6	9.7	19.3	73.8	198.5	174.3	364.7	6.3	102.4
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E9	65	.1	.8	.1	.2	.6	2.2	1.6	3.8	.1	1.0
5 TO 9 EMPLOYEES . . . . . E4	39	.3	1.9	.2	.4	1.3	3.9	3.3	7.1	.1	1.6
10 TO 19 EMPLOYEES . . . . . E1	30	.4	3.1	.3	.6	2.1	5.8	3.9	9.3	.2	2.1
20 TO 49 EMPLOYEES . . . . .	30	.9	6.8	.8	1.4	4.8	13.2	11.1	23.5	.1	5.0
50 TO 99 EMPLOYEES . . . . . E1	17	1.2	8.5	1.0	2.1	6.9	14.8	11.6	25.9	.4	6.7
100 TO 249 EMPLOYEES . . . . .	14	2.1	16.3	1.6	2.9	10.5	40.4	41.7	78.6	.5	19.6
250 TO 499 EMPLOYEES . . . . .	6	2.4	19.9	1.6	3.8	14.0	34.1	35.0	63.8	1.7	26.7
500 TO 999 EMPLOYEES . . . . .	3	5.1	44.3	4.1	7.9	33.5	84.2	66.2	152.6	3.1	39.6
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	74	.2	1.6	.2	.3	1.2	3.5	2.6	6.1	.1	1.7
3915-- JEWELERS MATS., LAPIDARY WORK											
ESTABLISHMENTS, TOTAL, . . . . . E1	568	8.0	55.8	6.7	12.5	36.4	117.2	217.8	325.6	5.3	62.5
ESTABLISHMENTS WITH AN AVERAGE OF--											
1 TO 4 EMPLOYEES . . . . . E4	280	.6	3.4	.5	.9	2.3	7.5	23.2	31.0	.8	4.1
5 TO 9 EMPLOYEES . . . . . E3	132	.9	5.8	.8	1.4	3.8	18.7	34.8	52.2	.8	9.7
10 TO 19 EMPLOYEES . . . . . E2	68	.9	5.6	.8	1.4	3.7	12.5	43.0	54.9	1.5	5.9
20 TO 49 EMPLOYEES . . . . .	51	1.6	11.5	1.4	2.5	7.7	21.5	40.2	60.6	.7	13.0
50 TO 99 EMPLOYEES . . . . .	26	1.7	13.6	1.3	2.6	8.1	29.0	52.2	78.4	.9	15.4
100 TO 249 EMPLOYEES . . . . .	8	1.2	8.5	1.0	2.0	6.0	12.0	14.3	25.7	.2	5.4
250 TO 499 EMPLOYEES . . . . .	2	1.1	7.3	.9	1.6	4.7	16.0	10.1	22.8	.4	9.1
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	337	1.3	7.0	1.3	2.2	4.8	15.8	21.6	37.5	1.0	6.5

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization:  
1972

This table presents selected statistics for establishments according to their degree of specialization in products primarily to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3911	JEWELRY, PRECIOUS METAL										
	ENTIRE INDUSTRY . . . . .	1 524	32.6	267.2	23.8	44.6	155.8	536.0	612.1	1 124.6	10.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	1 471	29.1	238.4	21.2	39.6	140.9	463.2	474.8	921.8	9.3
39111	JEWELRY MADE OF PLATINUM METALS OR CARAT GOLD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	476	19.9	176.6	13.7	26.5	100.0	344.1	442.0	768.3	6.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	434	17.5	157.5	12.0	23.2	89.5	296.4	311.2	595.9	5.9
39112	JEWELRY, PRECIOUS METAL EXC., PLAT., CARAT GOLD (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	117	7.7	55.5	6.1	11.1	33.5	114.8	88.7	198.3	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	87	4.5	30.3	3.6	6.6	19.8	55.6	49.6	102.8	1.3
3914	SILVERWARE AND PLATED WARE										
	ENTIRE INDUSTRY . . . . .	205	12.5	101.6	9.7	19.3	73.8	198.5	174.3	364.7	6.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	192	11.8	94.8	9.1	18.2	68.5	185.5	159.8	338.0	6.1
39141	SILVERWARE, PLATED WARE, AND STAINLESS STEEL WARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	78	4.7	35.6	3.8	7.2	26.1	70.8	61.2	130.6	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	71	4.3	30.5	3.5	6.6	22.8	61.7	50.1	111.2	1.8
39142	FLATWARE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	26	7.3	62.7	5.5	11.4	45.3	121.0	108.7	223.4	4.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	17	4.3	35.6	3.5	7.3	29.1	63.9	72.1	132.7	3.1
3915	JEWELERS' MATERIALS AND LAPIDARY WORK										
	ENTIRE INDUSTRY . . . . .	568	8.0	55.8	6.7	12.5	36.4	117.2	217.8	325.6	5.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	197	5.3	38.8	4.4	8.4	25.3	80.1	174.2	249.3	4.0
39151	JEWELERS' FININGS AND MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	114	4.8	34.9	3.9	7.5	23.0	63.9	88.4	147.4	1.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	108	3.8	28.4	3.1	6.1	18.9	49.1	76.7	124.8	1.3
39152	LAPIDARY WORK, DIAMOND CUTTING AND POLISHING (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	76	1.3	9.9	1.0	1.9	5.4	29.9	103.3	128.9	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	74	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)

(0) Withheld to avoid disclosing figures for individual companies.



**TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	$\frac{\text{Col. B}}{\text{Col. B \& C}}$ (percent)	(million dollars)	(million dollars)	(million dollars)	$\frac{\text{Col. B}}{\text{Col. F}}$ (percent)
		A	B	C	D	E	F	G	H	I
3911	Jewelry, precious metal.....1972..	1,124.6	947.1	79.2	98.3	92	981.8	947.1	34.7	96
	.....1967..	741.8	609.1	62.9	69.8	91	633.2	609.1	24.1	96
3914	Silverware and plated ware.....1972..	364.7	307.5	18.1	39.1	94	317.5	307.5	10.0	97
	.....1967..	339.1	302.8	15.4	20.9	95	305.4	302.8	2.6	99
3915	Jewelers' materials and lapidary work.....1972..	325.6	289.5	13.9	22.2	95	336.2	289.5	46.7	86
	.....1967..	218.1	184.7	16.6	16.8	92	213.2	184.7	28.5	87

**TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972**

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Jewelry, precious metal (SIC 3911)	Silverware and plated ware (SIC 3914)	Jewelers' materials and lapi- dary work (SIC 3915)	Other industries
	Total shipments and miscel- laneous receipts.....	(X)	1,124.6	364.7	325.6	(X)
3911-	Jewelry, precious metal.....	981.8	947.1	.2	9.9	24.6
39111	Jewelry made of platinum metals or carat gold.....	656.7	630.3	(under 2)	(over 2)	(over 2)
39112	Jewelry made of precious metals, except platinum metals and carat gold.....	178.5	170.4	(under 2)	(over 2)	(over 2)
39110	Jewelry, precious metal, n.s.k.....	146.6	146.6	-	-	-
3914-	Silverware and plated ware.....	317.5	-	307.5	-	10.0
39141	Silverware, plated ware, and stainless steel ware.....	154.3	-	148.9	-	5.4
39142	Flatware.....	153.3	-	(over 2)	-	(over 2)
39140	Silverware and plated ware, n.s.k.....	9.9	-	(over 2)	-	(under 2)
3915-	Jewelers' materials and lapidary work.....	336.2	35.3	-	289.5	11.4
39151	Jewelers' findings and materials.....	142.5	(over 2)	-	128.6	(over 2)
39152	Lapidary work and diamond cutting and polishing.....	132.8	(20-50)	-	(over 2)	(under 2)
39150	Jewelers' materials and lapi- dary work, n.s.k.....	60.9	-	-	(over 2)	(under 2)
	Other product shipments by 4-digit product group					
2844	Toilet preparations.....	(X)	(over 2)	-	-	(X)
3079	Miscellaneous plastics products .	(X)	-	(5-10)	-	(X)
3499	Fabricated metal products, n.e.c.	(X)	-	(over 2)	-	(X)
3961	Costume Jewelry.....	(X)	(20-50)	(under 2)	(under 2)	(X)

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products and miscellaneous receipts	All industries	Jewelry, precious metal (SIC 3911)	Silverware and plated ware (SIC 3914)	Jewelers' materials and lapidary work (SIC 3915)	Other industries
	Other product shipments by 4-digit product group--Con.					
93000	Miscellaneous receipts.....	(X)	98.3	39.1	22.2	(X)
99989	Contract work.....	(X)	6.5	1.7	5.4	(X)
99989	Resales.....	(X)	79.7	30.2	15.5	(X)
99980	Other.....	(X)	12.1	7.1	1.3	(X)
	Listings of other industries with over \$2 million shipments of primary products					
3911-	3873 Watches, clocks and watchcases.....	(X)	(X)	(X)	(X)	(10-20)
3911-	3961 Costume jewelry.....	(X)	(X)	(X)	(X)	13.2
3914-	3421 Cutlery.....	(X)	(X)	(X)	(X)	(2-5)
3915-	3356 Nonferrous rolling and drawing, n.e.c.....	(X)	(X)	(X)	(X)	(over 2)
3915-	3622 Industrial controls.....	(X)	(X)	(X)	(X)	(over 2)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)	
		1972	1967
3911- --	JEWELRY, PRECIOUS METAL, TOTAL.....	981.8	633.2
39111 --	Jewelry Made of Platinum Metals and Carat Gold.....	656.7	426.2
	Rings and ring mountings:		
	Rings (complete):		
39111 12	Wedding rings.....	109.2	99.4
39111 13	Other rings.....	248.9	139.5
39111 15	Ring mountings, for sale separately.....	68.0	24.2
39111 31	Women's and children's jewelry, such as necklaces, bracelets, brooches, pins, clips, earrings, and lockets (excluding watch attachments and rings).....	133.1	109.2
39111 41	Watch attachments (bracelets for watches).....	21.0	14.3
39111 51	Organizational jewelry, including fraternal, college, and school jewelry and emblems and military insignia (excludes rings).....	25.7	9.0
39111 98	Other jewelry worn or carried about the person, such as men's jewelry (collar and cuff buttons, studs, watch chains, etc.), religious jewelry (rosaries, chaplets, crosses, etc.), cigar and cigarette cases and lighters, compacts, and vanity cases.....	43.4	22.6
39111 00	Jewelry, made of platinum metals and carat gold, n.s.k.....	7.4	7.9
39112 --	Jewelry Made of Precious Metals, Except Platinum Metals and Carat Gold.....	178.5	125.8
	Jewelry made of gold filled, rolled goldplate, and sterling silver:		
	Rings and ring mountings.....	39.4	18.7
39112 11	Men's jewelry, such as collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, and tie and collar holders (excluding watch attachments and rings).....	12.7	10.6
39112 31	Women's and children's jewelry, such as necklaces, bracelets, brooches, pins, clips, earrings, and lockets (excluding watch attachments and rings).....	65.2	51.4
39112 41	Watch attachments (bracelets for watches).....	32.8	25.5
39112 98	Other jewelry worn or carried about the person, such as fraternal, college and school jewelry and emblems (excluding rings); military insignia; religious jewelry (rosaries, chaplets, crosses, etc.); cigar and cigarette cases and lighters; compacts, and vanity cases.....	21.8	18.1
39112 00	Jewelry, made of precious metals, except platinum metals and carat gold, n.s.k.....	6.6	1.6
39110 00	Jewelry, precious metal, n.s.k., for establishments with 10 employees or more. (See note.).....	65.1	38.4
39110 02	Jewelry, precious metal, n.s.k., for establishments with less than 10 employees. (See note.).....	81.5	42.8

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3914- --	SILVERWARE AND PLATED WARE, TOTAL.....		(X)	317.5	(X)	305.4
39141 --	Silverware, Plated Ware, and Stainless Steelware.....		(X)	154.3	(X)	126.3
	Hollowware, including toiletware, ecclesiastical ware, novelties, trophies, baby goods, and other plated ware:					
39141 11	Sterling silver.....		(X)	31.7	(X)	29.9
39141 31	Electrosilver plated.....		(X)	89.9	(X)	61.1
39141 51	Stainless steel.....		(X)	4.4	(X)	9.2
39141 55	Aluminum.....		(X)	1.4	}	
39141 65	Unplated hollowware of other metals and hollowware plated with metals other than silver, stainless steel and aluminum.....		(X)	22.9		(X)
39141 00	Silverware, plated ware, and stainless steelware, n.s.k.....		(X)	4.0	(X)	1.1
39142 --	Flatware.....		(X)	153.3	(X)	166.8
	Flatware, including all knives, forks, spoons, and carving sets made wholly of metal:					
39142 11	Sterling silver.....	1,000 dozens..	1,060	67.4	1,125	66.4
	Electrosilver plated:					
39142 34	Institutional.....	do.....	}	3,570	5,157	25.3
39142 36	Noninstitutional.....	do.....				
	Stainless steel:					
39142 54	Institutional.....	do.....	8,647	16.6	5,130	8.0
39142 56	Noninstitutional.....	do.....	14,721	48.1	22,839	65.2
39142 61	Unplated flatware of other metals and flatware plated with metals other than silver, including partly finished flatware.		(X)	1.3	(X)	1.9
39142 00	Flatware, n.s.k.....		(X)	-	(X)	(Z)
39140 00	Silverware, and plated ware, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	3.8	(X)	9.2
39140 02	Silverware, and plated ware, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	6.1	(X)	3.1
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
3915- --	JEWELERS' MATERIALS AND LAPIDARY WORK, TOTAL.....			336.2		213.2
39151 --	Jewelers' Findings and Materials.....			142.5		<sup>1</sup> 115.6
39151 13	Jewelers' findings, such as joints, pins, clasps, spring rings, ring blanks, and other unassembled parts.....			68.6		61.7
39151 31	Machine chain.....			25.5		17.7
39151 41	Gold filled and rolled goldplate materials.....			30.7		9.9
39151 51	Stock shop products, such as flat stock, wire, and tubing.....			11.9		13.6
39151 00	Jewelers' findings and materials, n.s.k., for establishments with 10 employees or more. (See note.)			5.8		<sup>1</sup> 7.2
39152 --	Lapidary Work and Diamond Cutting and Polishing.....			132.8		<sup>1</sup> 97.6
	Stones cut or polished in the plant from materials owned by the plant:					
39152 11	Diamonds for jewelry purposes.....			120.1	}	69.5
39152 15	Diamonds for industrial purposes.....					4.3
39152 31	Other natural precious and semiprecious stones and synthetic stones, including drilling of pearls.			10.6		5.7
39152 00	Lapidary work and diamond cutting and polishing, n.s.k., for establishments with 10 employees or more. (See note.).....			2.1		<sup>1</sup> 27.7
39150 00	Jewelers' materials and lapidary work, n.s.k., for establishments with 10 employees or more. (See note.).....			23.4		( <sup>1</sup> )
39150 02	Jewelers' materials and lapidary work, n.s.k., for establishments with less than 10 employees. (See note.).....			37.5		( <sup>1</sup> )

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriated product-class code (5 digits) followed by "00," or in some cases to the appropriated product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

<sup>1</sup>Because of an SIC change, administrative records and shipments coded to the appropriate product class code (five digits followed by 00) have been treated differently in the 1967 and 1972 censuses. The values for administrative records estimated for 1967 were \$5.5 million for jewelers' findings and materials and \$10.4 million for lapidary work and diamond cutting and polishing. In 1967, these values are included, respectively, in product classes 39151 and 39152. In 1972, these values are included in code 39150 02.

<sup>2</sup>Includes lapidary work done on materials owned by others for which type of stone was not reported.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
JEWELRY MADE OF PLATINUM METALS AND CARAT GOLD (39111)			SILVERWARE, PLATED WARE, AND STAINLESS STEELWARE (39141)--Continued		
United States.....	652.7	426.2	North Central Region.....	14.5	10.3
Northeast Region.....	504.0	354.5	East North Central Division.....	EE	CC
New England Division.....	108.7	73.8	Illinois.....	EE	9.8
Massachusetts.....	59.5	38.9	South Region.....	6.1	2.4
Rhode Island.....	48.4	FF	South Atlantic Division.....	BB	BB
Middle Atlantic Division.....	395.4	280.7	Maryland.....	BB	AA
New York.....	338.5	238.4	Florida.....	AA	(NA)
New Jersey.....	51.7	37.5	West South Central Division.....	AA	(NA)
Pennsylvania.....	5.2	4.7	Texas.....	AA	(NA)
North Central Region.....	63.0	42.9	West Region.....	2.7	(NA)
East North Central Division.....	49.5	35.2	Pacific Division.....	BB	(NA)
Ohio.....	4.4	BB	California.....	2.1	(NA)
Indiana.....	EE	EE			
Illinois.....	18.9	13.9	FLATWARE (39142)		
Michigan.....	11.6	4.2	United States.....	153.3	166.8
West North Central Division.....	13.5	7.8	Northeast Region.....	145.6	157.9
Minnesota.....	EE	5.9	New England Division.....	GG	GG
Missouri.....	BB	1.3	Massachusetts.....	28.8	29.2
South Region.....	41.5	5.6	Rhode Island.....	FF	FF
South Atlantic Division.....	EE	1.6	Connecticut.....	FF	GG
Florida.....	11.1	(NA)	Middle Atlantic Division.....	GG	FF
East South Central Division.....	AA	(NA)	New York.....	GG	FF
Kentucky.....	AA	(NA)	New Jersey.....	AA	1.8
West South Central Division.....	27.2	3.9	Pennsylvania.....	BB	(NA)
Oklahoma.....	BB	(NA)			
Texas.....	FF	3.7	North Central Region.....	BB	BB
West Region.....	44.2	23.1	East North Central Division.....	BB	BB
Mountain Division.....	CC	BB	Ohio.....	BB	AA
Utah.....	CC	BB	South Region.....	BB	BB
Pacific Division.....	FF	EE	South Atlantic Division.....	4.1	4.5
Washington.....	1.7	(NA)	Maryland.....	BB	BB
Oregon.....	BB	AA			
California.....	29.5	17.0			
JEWELRY MADE OF PRECIOUS METALS, EXCEPT PLATINUM METALS AND CARAT GOLD (39112)			JEWELERS' FINDINGS AND MATERIALS (39151)		
United States.....	178.5	125.8	United States.....	142.5	(NA)
Northeast Region.....	158.5	116.0	Northeast Region.....	138.2	(NA)
New England Division.....	115.9	81.1	New England Division.....	84.5	(NA)
Massachusetts.....	FF	25.6	Massachusetts.....	21.1	(NA)
Rhode Island.....	87.0	55.4	Rhode Island.....	61.4	(NA)
Middle Atlantic Division.....	42.6	34.9	Connecticut.....	AA	(NA)
New York.....	28.8	21.9	Middle Atlantic Division.....	53.7	(NA)
New Jersey.....	EE	EE	New York.....	32.7	(NA)
Pennsylvania.....	AA	AA	New Jersey.....	EE	(NA)
North Central Region.....	3.5	3.1	Pennsylvania.....	CC	(NA)
East North Central Division.....	BB	2.2	North Central Region.....	AA	(NA)
Illinois.....	1.8	1.2	East North Central Division.....	AA	(NA)
South Region.....	5.8	(NA)	Illinois.....	AA	(NA)
West South Central Division.....	CC	(NA)	West Region.....	BB	(NA)
Texas.....	CC	(NA)	Pacific Division.....	BB	(NA)
West Region.....	10.8	6.2	California.....	BB	(NA)
Mountain Division.....	7.3	3.3			
New Mexico.....	BB	BB	LAPIDARY WORK AND DIAMOND CUTTING AND POLISHING (39152)		
Utah.....	AA	(NA)	United States.....	132.8	(NA)
Pacific Division.....	3.5	2.9	Northeast Region.....	118.3	(NA)
California.....	BB	2.7	Middle Atlantic Division.....	EE	(NA)
SILVERWARE, PLATED WARE, AND STAINLESS STEELWARE (39141)			New York.....	GG	(NA)
United States.....	154.3	126.3	North Central Region.....	CC	(NA)
Northeast Region.....	130.9	113.1	East North Central Division.....	CC	(NA)
New England Division.....	93.9	75.5	Indiana.....	CC	(NA)
Massachusetts.....	46.6	37.0	Michigan.....	AA	(NA)
Rhode Island.....	CC	CC	West North Central Division.....	AA	(NA)
Connecticut.....	FF	FF	North Dakota.....	AA	(NA)
Middle Atlantic Division.....	36.9	37.6	West Region.....	CC	(NA)
New York.....	27.4	29.3	Mountain Division.....	CC	(NA)
New Jersey.....	8.2	6.2	Arizona.....	CC	(NA)
Pennsylvania.....	1.3	2.1			

See footnotes on next page.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1972 and 1967—Continued

(Footnotes for Table 6B)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3911	Jewelry, precious metal.....	981.8	821.5	770.9	753.4	725.5	633.2	400.4	287.2
39111	Jewelry made of platinum metals or carat gold.....	656.7	580.8	534.8	562.2	546.8	426.2	286.3	195.2
39112	Jewelry, made of precious metals, except platinum and carat gold.....	178.5	152.6	142.1	135.5	126.2	125.8	93.7	74.3
39110	Jewelry, precious metal, n.s.k.....	146.6	88.1	(94.0)	55.7	(52.5)	81.2	20.4	17.6
3914	Silverware and plated ware.....	317.5	300.2	270.7	329.1	320.6	305.4	211.9	178.8
39141	Silverware, plated ware, and stainless steel ware.....	154.3	139.0	115.2	140.9	134.5	126.3	93.9	74.3
39142	Flatware.....	153.3	154.6	144.0	179.8	179.3	166.8	113.2	97.1
39140	Silverware and plated ware, n.s.k.....	9.9	6.6	(11.5)	8.4	6.8	12.3	4.8	7.4
3915	Jewelers' materials and lapidary work.....	336.2	229.5	206.5	253.6	229.0	213.2	138.2	100.1
39151	Jewelers' findings and materials.....	142.5	86.7	82.8	151.5	131.2	115.6	70.5	56.8
39152	Lapidary work and diamond cutting and polishing.....	132.8	142.8	123.7	102.1	97.8	97.6	67.7	43.3
39150	Jewelers' materials and lapidary work, n.s.k.....	60.9	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Included in product classes 39151 and 39152 (see footnote 1, table 6A).

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 3914.--SILVERWARE AND PLATED WARE					
	Materials, components, parts, containers, and supplies, total.		(X)	142.4	(X)	133.1
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	29.4	25.2	27.5	25.4
331020	Alloy steel.....	..do.....				
	Stainless steel:					
331033	Sheet and strip.....	..do.....	17.2	13.5	(D)	(D)
331050	All other stainless steel mill shapes and forms.....	..do.....				
335105	Copper and copper-base alloy.....	..Million lb..				
333903	Precious metals, all forms, including ingot sheet, strip, solder, plating, electrodes, etc.....		(X)	44.1	(X)	41.6
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	37.2	(X)	157.7
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....		(X)	22.4	(X)	8.4

(X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost (million dollars)
	3911.—JEWELRY, PRECIOUS METAL			
	Purchased fuels and electric energy.....		(X)	4.1
	Purchased fuels, total.....		(X)	1.0
121005	Coal.....	1,000 s. tons.....	-	-
331212	Coke.....	..do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	62.4	.3
291141	Distillate.....	..do.....	45.9	.2
291151	Residual.....	..do.....	16.5	.1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.4	.1
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.6
960012	Purchased electric energy.....	Million kWh.....	167.0	3.1
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	.7	-
	3912.--JEWELERS' FINDINGS AND MATERIALS			
	3913.--LAPIDARY WORK			
	(The data for these industries (1967 SIC) are withheld because the estimates did not meet publication standards.)			
	3914.—SILVERWARE AND PLATED WARE			
	Purchased fuels and electric energy.....		(X)	4.2
	Purchased fuels, total.....		(X)	1.8
121005	Coal.....	1,000 s. tons.....	22.7	.2
331212	Coke.....	..do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	109.7	.5
291141	Distillate.....	..do.....	24.2	.1
291151	Residual.....	..do.....	85.6	.4
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.4	.3
960011	Other fuels.....		(X)	.3
975000	Fuels, n.s.k.....		(X)	.6
960012	Purchased electric energy.....	Million kWh.....	185.5	2.4
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-
	Total energy used for heat and power.....	Bill. kWh equiv....	1.0	-

Note: Data for manufactured mixed gas, blast furnace gas, and coke oven gas are included in code 960011, other fuels.

- Represents zero.

(X) Not applicable.

(S) Withheld because the estimates did not meet publication standards.

(Z) Less than half of the unit of measurement shown.



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# Musical Instruments and Parts; Toys and Sporting Goods

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# EXPLANATORY TEXT

## MUSICAL INSTRUMENTS AND PARTS; TOYS AND SPORTING GOODS

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

**3931—Musical Instruments**

**3942—Dolls**

**3944—Games, Toys, and Children's Vehicles; Except Dolls and Bicycles\***

**3949—Sporting and Athletic Goods, N.E.C.**

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### INDUSTRY 3931.—MUSICAL INSTRUMENTS

This industry comprises establishments primarily engaged in the manufacture of pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments. For a detailed list of products of industry 3931, refer to table 6A, product codes 39311 11 to 39314 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Musical Instruments Industry in 1972 totaled \$618 million. This included shipments of musical instruments and parts (primary products), valued at \$521 million, shipments of other products

(secondary products) valued at \$17 million, and miscellaneous receipts (mainly resales) of \$80 million.

Shipments of musical instruments and parts (primary products) in 1972 represented 97 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 97 percent.

Shipments of musical instruments and parts (primary products) from establishments classified in industry 3931 in 1972 represented 99 percent (coverage ratio) of these products valued at \$526 million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3931, these establishments accounted for 3 percent of value of shipments.

### INDUSTRY 3942.—DOLLS

This industry comprises establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. For a detailed list of products of industry 3942, refer to table 6A, product codes 39420 06 to 39420 55.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Dolls Industry in 1972 totaled \$199 million. This included shipments of dolls (primary products), valued at \$190 million, shipments of other products (secondary products) valued at \$3 million, and miscellaneous receipts (mainly contract work) of \$7 million.

Shipments of dolls (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was over 99 percent.

Shipments of dolls (primary products) from establishments classified in industry 3942 in 1972 represented 68 percent (coverage ratio) of these products valued at \$278 million shipped by all industries. In 1967, the coverage ratio was 70 percent. Other industries shipping dolls consisted mainly of industry 3944, Games, Toys, and Children's Vehicles.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail

\*Note that the "short title" for this industry is used throughout the report.



portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3942, these establishments accounted for 9 percent of value of shipments.

#### **INDUSTRY 3944.—GAMES, TOYS, AND CHILDREN'S VEHICLES (Short Title)**

This industry comprises establishments primarily engaged in the manufacture of games and game sets for adults and children, such as chess, checkers, dominoes, puzzles, and mechanical and nonmechanical toys.

This industry also includes establishments primarily engaged in manufacturing toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles.

Establishments primarily engaged in manufacturing dolls are classified in industry 3942; sporting and athletic goods for children and adults in industry 3949; and bicycles in industry 3751.

The statistics for this industry, as classified under the 1972 edition of the Standard Industrial Classification (SIC) Manual, were changed by combining industries 3941 and 3943 in the previous classification system but were not changed as to content, otherwise.

The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC.

Value of shipments and other receipts of the Games, Toys, and Children's Vehicles Industry in 1972 totaled \$1,739 million. This included shipments of games, toys, and children's vehicles (primary products), valued at \$1,385 million, shipments of other products (secondary products) valued at \$222 million, and miscellaneous receipts (mainly resales) of \$133 million.

Shipments of games, toys, and children's vehicles (primary products) in 1972 represented 86 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 87 percent. Secondary products shipped by this industry in 1972 consisted mainly of dolls.

Shipments of games, toys, and children's vehicles (primary products) from establishments classified in industry 3944 in 1972 represented 92 percent (coverage ratio) of these products valued at \$1,501 million shipped by all industries. In 1967, the coverage ratio was also 92 percent. Other industries shipping

games, toys, and children's vehicles consisted mainly of industry 3079, Miscellaneous, Plastics Products, \$27 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3944, these establishments accounted for 8 percent of value of shipments.

#### **INDUSTRY 3949.—SPORTING AND ATHLETIC GOODS, N.E.C.**

This industry comprises establishments primarily engaged in the manufacture of sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment.

Establishments primarily engaged in manufacturing athletic apparel are classified in SIC Major Group 23; small arms ammunition in industry 3482; and firearms in industry 3484.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Sporting and Athletic Goods, N.E.C., Industry in 1972 totaled \$1,737 million. This included shipments of sporting and athletic goods, n.e.c. (primary products), valued at \$1,454 million, shipments of other products (secondary products) valued at \$181 million, and miscellaneous receipts (mainly resales) of \$102 million.

Shipments of sporting and athletic goods, n.e.c. (primary products) in 1972 represented 89 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous plastics products (\$36 million).

Shipments of sporting and athletic goods, n.e.c. (primary products) from establishments classified in industry 3949 in 1972 represented 94 percent (coverage ratio) of these products valued at \$1,539 million shipped by all industries. In 1967, the coverage ratio was 91 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3949, these establishments accounted for 7 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
INDUSTRY 3931.--MUSICAL INSTRUMENTS															
1972 Census.....	344	111	24.5	173.4	19.7	38.3	123.9	339.4	296.7	617.5	10.6	(NA)	151.7	97	99
1971 ASM.....	(NA)	(NA)	20.3	145.8	16.1	30.0	100.1	270.1	133.2	506.5	9.3	119.6	128.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.1	142.1	16.7	31.5	94.9	243.0	221.8	475.6	9.8	112.7	129.4	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.5	154.6	19.7	38.0	110.2	281.3	237.3	507.6	10.6	119.6	135.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	23.4	145.2	19.1	37.4	102.9	248.6	215.7	468.2	8.7	105.9	118.1	(NA)	(NA)
1967 Census.....	343	121	24.9	143.7	20.8	39.9	106.0	237.8	202.4	434.3	10.6	99.3	123.6	97	98
1966 ASM.....	(NA)	(NA)	25.1	139.8	20.5	41.9	103.5	248.2	204.4	437.3	7.2	(NA)	108.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	23.6	124.6	19.5	39.3	93.3	229.5	178.6	403.9	10.6	(NA)	80.1	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	21.7	115.0	17.7	37.2	85.7	189.7	163.7	352.3	6.3	72.6	68.7	(NA)	(AN)
1963 Census.....	320	126	20.1	103.0	16.7	33.6	76.5	179.0	143.1	314.4	5.8	65.7	63.7	97	92
1962 ASM.....	(NA)	(NA)	20.8	101.0	17.1	33.7	74.5	144.9	153.5	293.1	3.9	65.9	69.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	19.4	91.4	15.7	30.6	66.2	133.1	144.8	277.0	3.7	(NA)	63.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	20.2	93.7	16.5	32.1	69.9	132.8	145.9	274.6	4.2	(NA)	60.2	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	18.6	88.2	15.4	30.5	66.5	154.9	150.8	297.0	4.9	(NA)	54.0	(NA)	(NA)
1958 Census.....	273	116	16.1	74.6	13.1	25.6	55.8	120.9	114.3	236.7	4.6	(NA)	45.6	98	91
INDUSTRY 3942.--DOLLS															
1972 Census.....	243	105	10.2	53.9	9.0	16.2	38.6	98.3	101.5	199.1	1.7	(NA)	30.9	99	68
1971 ASM.....	(NA)	(NA)	8.6	44.5	7.5	13.9	31.1	86.3	86.4	170.7	4.9	*33.3	26.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	9.3	44.1	8.2	14.8	31.5	83.7	85.9	168.3	1.6	30.5	22.5	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	11.2	47.1	10.1	17.3	35.0	79.9	82.7	164.8	1.8	(S)	18.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	11.4	47.3	10.3	17.6	35.2	78.9	77.8	158.0	1.2	22.9	16.0	(NA)	(NA)
1967 Census.....	340	138	11.9	46.4	10.7	18.4	34.3	82.8	80.0	162.8	2.4	24.3	16.4	99+	70
1966 ASM.....	(NA)	(NA)	11.6	41.2	10.5	18.5	32.0	74.7	75.4	150.2	1.6	(NA)	14.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	12.8	45.4	11.5	19.9	34.4	83.7	78.7	161.6	2.8	(NA)	16.2	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	13.4	47.3	12.3	21.4	36.5	93.3	80.6	173.0	1.9	23.0	17.3	(NA)	(NA)
1963 Census.....	410	160	16.2	59.0	13.9	24.4	41.8	138.1	114.4	247.9	6.3	21.2	27.2	80-85	87
1962 ASM.....	(NA)	(NA)	18.3	62.3	16.9	28.5	46.7	148.9	130.8	273.6	9.5	20.0	34.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	16.2	51.1	15.5	24.5	36.9	97.3	98.1	194.7	2.2	(NA)	18.5	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	14.7	47.1	12.9	23.2	34.6	85.8	94.3	178.3	2.1	(NA)	14.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	14.2	43.8	12.5	22.7	33.2	82.1	85.6	168.2	2.9	(NA)	12.0	(NA)	(NA)
1958 Census.....	485	162	13.9	44.0	12.2	22.7	33.9	77.1	85.1	161.9	5.5	(NA)	12.7	98	94
INDUSTRY 3944.--GAMES, TOYS, AND CHILDREN'S VEHICLES															
1972 Census <sup>2</sup> .....	665	285	62.0	423.8	48.7	92.6	270.9	983.4	763.8	1,739.3	72.9	(NA)	295.9	86	92
1971 ASM.....	(NA)	(NA)	57.0	370.8	45.1	84.6	228.7	869.7	674.1	1,540.6	48.4	427.9	284.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	65.1	377.0	52.5	96.6	235.6	915.2	713.0	1,614.0	47.4	398.3	285.0	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	64.9	352.6	54.1	99.5	234.1	836.4	664.7	1,485.3	50.6	365.7	247.4	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	63.9	323.0	43.1	97.7	219.3	770.0	601.4	1,357.0	42.5	324.9	202.7	(NA)	(NA)
1967 Census.....	729	353	58.8	284.3	49.2	93.0	192.0	653.0	531.5	1,192.2	37.2	294.4	173.3	87	92
1966 ASM.....	(NA)	(NA)	67.3	303.0	56.6	110.2	202.2	669.4	592.4	1,253.0	33.2	(NA)	201.9	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	67.7	296.1	57.3	110.0	199.2	620.1	587.2	1,188.6	34.9	(NA)	184.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	59.0	253.1	49.4	96.0	172.6	542.3	470.2	1,007.0	32.0	236.7	154.5	(NA)	(NA)
1963 Census.....	861	382	56.3	226.1	47.8	92.0	159.5	479.4	403.8	874.1	29.6	236.5	147.0	90	88
1962 ASM.....	(NA)	(NA)	52.4	204.8	43.0	85.9	143.9	437.9	369.4	790.5	19.4	213.1	120.9	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	54.7	203.2	45.1	86.3	141.4	442.5	372.8	803.9	17.4	(NA)	107.2	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	50.5	185.4	41.7	80.9	129.9	376.5	343.5	710.5	15.9	(NA)	99.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	50.4	181.2	41.3	78.1	128.0	342.4	329.8	674.0	*19.8	(NA)	90.2	(NA)	(NA)
1958 Census.....	912	400	47.7	169.3	39.9	75.7	121.5	320.6	296.7	614.5	17.3	(NA)	90.0	(NA)	(NA)
INDUSTRY 3949.--SPORTING AND ATHLETIC GOODS, N.E.C.															
1972 Census.....	1,554	464	61.3	407.2	49.3	93.9	292.7	924.2	847.4	1,736.6	46.9	(NA)	379.8	89	94
1971 ASM.....	(NA)	(NA)	46.0	278.3	37.4	71.5	193.5	612.1	469.0	1,074.2	26.7	257.9	279.7	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	44.9	260.0	36.4	70.6	180.9	537.8	422.9	956.4	30.0	248.6	257.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	49.2	275.3	40.3	78.8	191.5	545.3	486.2	1,019.0	25.8	243.6	268.8	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	46.2	250.5	37.7	74.1	173.5	505.3	437.6	929.6	22.0	235.7	234.6	(NA)	(NA)
1967 Census.....	1,366	383	45.2	228.3	37.2	72.0	160.0	469.5	406.5	853.3	22.5	221.2	218.1	95	91
1966 ASM.....	(NA)	(NA)	39.4	202.5	31.5	61.8	142.8	423.8	402.8	805.1	22.4	(NA)	196.7	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	41.2	193.3	32.4	63.3	136.2	387.7	393.4	816.7	17.4	(NA)	187.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	39.9	182.9	31.8	63.3	127.7	380.4	344.0	725.6	17.6	146.6	170.0	(NA)	(NA)
1963 Census.....	1,419	345	40.5	175.8	32.5	62.7	123.3	361.0	346.0	704.7	15.3	134.0	175.1	93	91
1962 ASM.....	(NA)	(NA)	36.7	165.0	29.4	56.9	107.1	358.6	345.7	697.8	18.7	125.9	177.1	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	38.7	162.1	31.1	58.5	107.8	369.7	378.7	773.5	15.1	(NA)	154.7	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	39.9	168.0	31.9	60.6	110.3	383.9	368.4	726.5	12.8	(NA)	179.3	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	38.0	161.0	31.3	61.6	110.4	332.2	329.7	649.5	17.5	(NA)	146.8	(NA)	(NA)
1958 Census.....	1,210	302	37.2	148.5	29.7	57.4	104.3	314.1	269.5	577.8	15.1	(NA)	127.6	88	91

See footnotes on next page.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3931	Industry 3942	Industry 3944	Industry 3949	1967 industry 3941	1967 industry 3943
1972.....	310	237	619	1,441	(X)	(X)
1967.....	304	331	(X)	1,304	653	41
1963.....	288	404	(X)	1,361	767	60

Although 1972 industry 3944 is a combination of 1967 industries 3941 and 3943, the number of companies is not separately available for 1967 and 1963 on the new SIC basis.

(NA) Not available. (X) Not applicable. (S) Withheld because the data did not meet publication standards. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The 1972 data are not strictly comparable to 1971 and prior years because of revisions in the 1972 Standard Industrial Classification. For 1972, these statistics are the totals for industry 3944 on the new SIC basis. For 1971 and prior years, they are the combined totals for industries 3941 and 3943 as classified on the old SIC basis. Because of changes in the product mix for several plants classified in these industries, the 1972 establishment count for industry 3944 on the new SIC basis is not necessarily identical to the combined establishment count for industries 3941 and 3943 on the old SIC basis (see table 1C). However, the effect of these changes is estimated to be less than one percent of the total value of shipments for 1972 industry 3944.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3931.--MUSICAL INSTRUMENTS											
1972 Census.....	7,078	(NA)	80	1,944	3.23	.48	.76	(NA)	13,853	51	8.86
1971 ASM.....	7,182	5,890	79	1,863	3.34	.46	.75	.24	13,305	54	9.00
1970 ASM.....	6,735	5,340	79	1,886	3.01	.47	.77	.24	11,517	58	7.71
1969 ASM.....	6,310	4,880	80	1,929	2.90	.47	.77	.24	11,482	55	7.40
1968 ASM.....	6,205	4,530	82	1,958	2.75	.46	.77	.23	10,624	58	6.65
1967 Census.....	5,780	3,990	84	1,920	2.66	.47	.80	.23	9,565	60	5.96
1966 ASM.....	5,578	(NA)	82	2,048	2.47	.47	.79	(NA)	9,905	56	5.92
1965 ASM.....	5,272	(NA)	83	2,013	2.37	.44	.75	(NA)	9,709	54	5.84
1964 ASM.....	5,297	3,350	82	2,096	2.30	.46	.79	.21	8,742	61	5.10
1963 Census.....	5,127	3,270	83	2,016	2.28	.46	.78	.21	8,909	58	5.33
1962 ASM.....	4,849	3,170	82	1,974	2.21	.52	.87	.22	6,957	70	4.30
1961 ASM.....	4,709	(NA)	81	1,948	2.17	.52	.85	(NA)	6,862	69	4.35
1960 ASM.....	4,638	(NA)	82	1,946	2.18	.53	.87	(NA)	6,572	71	4.14
1959 ASM.....	4,737	(NA)	83	1,986	2.18	.51	.80	(NA)	8,315	57	5.07
1958 Census.....	4,636	(NA)	81	1,953	2.18	.48	.80	(NA)	7,510	62	4.73
INDUSTRY 3942.--DOLLS											
1972 Census.....	5,284	(NA)	88	1,800	2.38	.51	.78	(NA)	9,637	55	6.08
1971 ASM.....	5,174	2,580	87	1,853	2.24	.51	.77	.20	10,035	52	6.21
1970 ASM.....	4,742	3,290	88	1,805	2.13	.51	.77	.18	9,000	53	5.66
1969 ASM.....	4,205	(S)	90	1,713	2.02	.50	.79	(S)	7,134	59	4.62
1968 ASM.....	4,149	2,010	90	1,709	2.00	.49	.79	.14	6,921	60	4.48
1967 Census.....	3,910	2,040	90	1,723	1.87	.49	.78	.15	6,986	56	4.50
1966 ASM.....	3,546	(NA)	90	1,765	1.73	.50	.78	(NA)	6,427	55	4.04
1965 ASM.....	3,554	(NA)	90	1,736	1.73	.49	.77	(NA)	6,554	54	4.20
1964 ASM.....	3,534	1,720	92	1,736	1.71	.47	.74	.13	6,976	51	4.37
1963 Census.....	3,638	1,310	86	1,748	1.71	.46	.70	.09	8,518	43	5.67
1962 ASM.....	3,399	1,090	92	1,685	1.64	.48	.71	.07	8,119	42	5.22
1961 ASM.....	3,150	(NA)	96	1,578	1.51	.50	.77	(NA)	5,995	53	3.97
1960 ASM.....	3,202	(NA)	88	1,793	1.49	.53	.79	(NA)	5,833	55	3.70
1959 ASM.....	3,080	(NA)	88	1,817	1.46	.51	.77	(NA)	5,773	53	3.62
1958 Census.....	3,173	(NA)	88	1,862	1.49	.53	.80	(NA)	5,566	57	3.40

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3944.--GAMES, TOYS, AND CHILDREN'S VEHICLES											
1972 Census <sup>1</sup> .....	6,835	(NA)	79	1,901	2.93	.44	.68	(NA)	15,861	.43	10.62
1971 ASM.....	6,505	7,510	79	1,876	2.70	.44	.68	.28	15,258	43	10.28
1970 ASM.....	5,791	6,120	81	1,840	2.44	.44	.68	.25	14,058	41	9.47
1969 ASM.....	5,433	5,630	83	1,839	2.35	.45	.68	.25	12,888	42	8.41
1968 ASM.....	5,055	5,080	67	2,267	2.24	.44	.68	.24	12,050	42	7.88
1967 Census.....	4,835	5,010	84	1,890	2.06	.45	.68	.25	11,105	44	7.02
1966 ASM.....	4,502	(NA)	84	1,947	1.83	.47	.71	(NA)	9,947	45	6.07
1965 ASM.....	4,374	(NA)	85	1,920	1.81	.49	.74	(NA)	9,160	48	5.64
1964 ASM.....	4,290	4,010	84	1,943	1.80	.47	.72	.24	9,192	47	5.65
1963 Census.....	4,016	4,200	85	1,925	1.73	.46	.72	.27	8,515	47	5.21
1962 ASM.....	4,099	4,070	82	1,998	1.68	.47	.73	.27	8,357	47	5.10
1961 ASM.....	3,715	(NA)	82	1,914	1.64	.46	.72	(NA)	8,090	46	5.13
1960 ASM.....	3,671	(NA)	83	1,940	1.61	.48	.74	(NA)	7,455	49	4.65
1959 ASM.....	3,595	(NA)	82	1,891	1.64	.49	.76	(NA)	6,794	53	4.38
1958 Census.....	3,549	(NA)	84	1,897	1.61	.48	.76	(NA)	6,721	53	4.24
INDUSTRY 3949.--SPORTING AND ATHLETIC GOODS, N.E.C.											
1972 Census.....	6,643	(NA)	80	1,905	3.12	.49	.72	(NA)	15,077	44	9.84
1971 ASM.....	6,050	5,610	81	1,912	2.71	.44	.70	.24	13,307	46	8.56
1970 ASM.....	5,791	5,540	81	1,940	2.56	.44	.71	.26	11,978	48	7.62
1969 ASM.....	5,596	4,950	82	1,955	2.43	.48	.75	.24	11,083	51	6.92
1968 ASM.....	5,422	5,100	82	1,966	2.34	.47	.74	.25	10,937	50	6.82
1967 Census.....	5,045	4,890	82	1,933	2.22	.48	.74	.26	10,376	49	6.52
1966 ASM.....	5,144	(NA)	80	1,963	2.31	.50	.75	(NA)	10,756	48	6.82
1965 ASM.....	4,688	(NA)	79	1,952	2.15	.48	.72	(NA)	9,404	50	6.13
1964 ASM.....	4,585	3,670	80	1,989	2.02	.47	.73	.20	9,533	48	6.01
1963 Census.....	4,336	3,310	80	1,928	1.97	.49	.74	.19	8,904	49	5.76
1962 ASM.....	4,494	3,430	80	1,933	1.88	.50	.73	.18	9,764	46	6.30
1961 ASM.....	4,188	(NA)	80	1,881	1.84	.49	.70	(NA)	9,550	44	6.32
1960 ASM.....	4,206	(NA)	80	1,901	1.82	.51	.74	(NA)	9,612	44	6.33
1959 ASM.....	4,233	(NA)	82	1,969	1.79	.51	.76	(NA)	8,732	48	5.39
1958 Census.....	3,995	(NA)	80	1,929	1.82	.47	.72	(NA)	8,451	47	5.47

(NA) Not available. (S) Withheld because the data did not meet publication standards.

<sup>1</sup>The 1972 data are not strictly comparable with 1971 and prior years. (See footnote 2, table 1A.)

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(number)	(number)			
New Industry 3944.--Games, Toys, and Children's Vehicles...	665	285	62.0	983.4	1,739.3	(X)	(X)	(X)	(X)	(X)
Old Industry 3941.--Games and Toys.....	634	268	58.5	943.1	1,641.7	631	265	57.0	915.7	1,599.7
Old Industry 3943.--Children's Vehicles Except Bicycles..	31	17	3.5	40.3	97.6	31	17	3.5	40.3	97.6

(X) Not applicable.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3931-- MUSICAL INSTRUMENTS													
UNITED STATES. . . . .	344	111	24.5	173.4	19.7	38.3	123.9	339.4	296.7	617.5	10.6	24.9	237.8
NORTHEAST REGION. . . . . E1	109	30	3.6	27.0	3.0	5.7	19.2	44.3	25.3	70.2	2.3	4.2	39.6
NEW ENGLAND DIVISION. . . . .	36	9	.8	7.3	.7	1.3	5.0	11.2	5.7	16.4	.8	.7	7.5
MASSACHUSETTS. . . . . E1	24	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	4.0
CONNECTICUT. . . . .	9	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MIDDLE ATLANTIC DIVISION. . . . . E1	73	21	2.7	19.7	2.3	4.4	14.2	33.0	19.6	53.7	1.6	3.4	32.1
NEW YORK. . . . . E1	38	13	1.6	11.3	1.4	2.6	8.7	16.9	10.8	29.5	.4	2.1	19.3
NEW JERSEY. . . . . E4	20	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	4.5
PENNSYLVANIA. . . . .	15	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	8.2
NORTH CENTRAL REGION. . . . .	124	45	10.7	81.5	8.3	16.0	57.0	165.8	166.1	324.6	4.7	12.9	140.3
EAST NORTH CENTRAL DIVISION. . . . .	100	43	10.2	77.7	7.9	15.4	55.4	159.4	158.4	310.8	4.3	12.7	137.4
OHIO. . . . .	21	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDIANA. . . . .	26	10	2.7	22.4	2.2	4.3	15.0	55.2	53.8	105.9	.9	3.0	45.1
ILLINOIS. . . . .	34	15	4.8	35.1	3.5	7.0	25.0	67.5	79.8	143.6	2.5	6.2	62.5
MICHIGAN. . . . .	11	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WISCONSIN. . . . .	8	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST NORTH CENTRAL DIVISION. . . . .	24	2	.5	3.8	.3	.6	1.6	6.4	7.7	13.9	.3	.2	2.9
KANSAS. . . . .	5	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION. . . . .	45	20	6.6	37.3	5.9	11.4	30.5	76.3	66.5	139.7	2.8	5.4	37.0
SOUTH ATLANTIC DIVISION. . . . .	24	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.3
MARYLAND. . . . .	7	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	4.6
NORTH CAROLINA. . . . .	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	3.2
SOUTH CAROLINA. . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
EAST SOUTH CENTRAL DIVISION. . . . .	11	7	3.7	22.1	3.3	6.7	18.6	45.6	36.0	80.1	1.7	FF	(D)
TENNESSEE. . . . .	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MISSISSIPPI. . . . .	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
WEST SOUTH CENTRAL DIVISION. . . . .	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ARKANSAS. . . . .	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION. . . . .	66	16	3.7	27.6	2.6	5.2	17.1	52.9	38.8	82.9	.9	2.4	20.9
MOUNTAIN DIVISION. . . . .	17	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
ARIZONA. . . . .	6	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
UTAH. . . . .	3	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . .	49	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OREGON. . . . .	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . .	38	8	2.7	21.2	1.7	3.4	12.6	42.2	29.1	63.7	.5	1.9	15.8
3942-- DOLLS													
UNITED STATES. . . . .	243	105	10.2	54.0	9.0	16.2	38.6	98.3	101.5	199.1	1.7	11.9	82.8
NORTHEAST REGION. . . . .	176	83	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.5	67.0
NEW ENGLAND DIVISION. . . . .	20	14	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NEW HAMPSHIRE. . . . . E1	6	4	.5	2.3	.4	.8	2.0	2.5	1.8	4.7	(D)	.2	1.0
MASSACHUSETTS. . . . .	8	5	.5	2.0	.4	.6	1.3	3.8	4.5	8.1	.1	CC	(D)
CONNECTICUT. . . . .	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MIDDLE ATLANTIC DIVISION. . . . . E1	156	69	6.3	34.9	5.5	10.0	24.8	66.5	71.9	137.4	.9	FF	(D)
NEW YORK. . . . . E1	137	60	5.4	28.4	4.8	8.6	20.5	49.5	53.2	102.2	.5	FF	(D)
NEW JERSEY. . . . .	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	5.2
PENNSYLVANIA. . . . .	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
NORTH CENTRAL REGION. . . . .	17	9	.9	4.3	.8	1.6	3.3	7.3	9.7	17.2	.2	.8	4.4
WEST NORTH CENTRAL DIVISION. . . . .	12	7	.8	3.7	.7	1.5	2.9	5.9	8.8	14.8	.2	CC	(D)
MINNESOTA. . . . .	5	3	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MISSOURI. . . . .	7	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
SOUTH REGION. . . . .	20	7	1.3	6.8	1.1	2.0	4.4	12.1	7.1	19.3	.2	EE	(D)
SOUTH ATLANTIC DIVISION. . . . .	13	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
SOUTH CAROLINA. . . . .	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
GEORGIA. . . . .	3	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
FLORIDA. . . . .	5	1	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
WEST REGION. . . . . E2	30	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
PACIFIC DIVISION. . . . . E2	27	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
CALIFORNIA. . . . . E2	23	6	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
3944-- GAMES, TOYS, CHILDREN'S VEHICLES													
UNITED STATES. . . . .	665	285	62.0	423.8	48.7	92.6	270.9	983.4	763.8	1 739.3	72.9	58.8	1 739.3
NORTHEAST REGION. . . . . E1	286	132	27.8	180.9	22.3	42.6	121.1	448.3	327.8	767.6	40.1	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	76	37	7.7	51.7	6.4	12.1	35.2	145.9	88.4	231.5	15.4	(NA)	(NA)
NEW HAMPSHIRE. . . . .	6	2	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	40	22	4.2	30.5	3.3	6.4	19.2	91.9	45.8	136.2	6.1	(NA)	(NA)
RHODE ISLAND. . . . .	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CONNECTICUT. . . . . E5	13	4	88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . . E1	210	95	20.1	129.2	15.9	30.5	85.9	302.4	239.5	536.1	24.8	(NA)	(NA)
NEW YORK. . . . . E1	129	53	10.9	76.7	8.6	15.9	48.5	190.6	154.7	336.2	13.0	(NA)	(NA)
NEW JERSEY. . . . . E1	43	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . . E2	38	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3944-- GAMES, TOYS, CHILDREN'S VEHICLES-- CONTINUED													
NORTH CENTRAL REGION . . . . .	187	95	19.2	138.6	15.4	28.6	90.7	288.7	242.2	534.7	22.1	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . .	145	80	16.0	114.6	12.8	23.5	76.0	239.3	200.1	444.4	17.9	(NA)	(NA)
OHIO . . . . . E1	36	14	4.0	27.0	3.2	5.6	15.0	66.5	41.8	112.0	5.6	(NA)	(NA)
INDIANA . . . . .	10	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ILLINOIS . . . . .	68	42	6.6	46.6	5.7	11.2	33.9	98.4	92.1	186.9	9.8	(NA)	(NA)
MICHIGAN . . . . .	15	9	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WISCONSIN . . . . .	16	11	3.4	27.4	2.3	3.9	17.8	42.5	44.7	90.9	1.5	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . .	42	15	3.2	24.1	2.6	5.1	14.7	49.4	42.1	90.3	4.2	(NA)	(NA)
MINNESOTA . . . . .	17	7	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
IOWA . . . . .	7	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MISSOURI . . . . . E2	10	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
SOUTH REGION . . . . .	79	33	7.3	43.4	6.3	12.7	32.7	106.5	77.2	179.1	6.6	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . .	43	16	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MARYLAND . . . . .	10	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST VIRGINIA . . . . .	7	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NORTH CAROLINA . . . . .	9	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
GEORGIA . . . . .	4	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . .	14	10	1.8	9.4	1.6	3.1	7.2	22.9	20.8	43.2	1.4	(NA)	(NA)
KENTUCKY . . . . .	3	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TENNESSEE . . . . .	7	4	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ALABAMA . . . . .	2	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MISSISSIPPI . . . . .	2	1	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	22	7	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
ARKANSAS . . . . .	16	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TEXAS . . . . .	16	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST REGION . . . . .	113	25	7.6	60.9	4.8	8.6	26.3	139.9	116.6	257.9	4.0	(NA)	(NA)
MOUNTAIN DIVISION. . . . . E1	23	3	.7	4.7	.4	.8	2.2	7.6	7.2	13.6	.8	(NA)	(NA)
COLORADO . . . . .	7	3	.6	4.0	.4	.6	1.8	5.9	5.9	10.6	.7	(NA)	(NA)
PACIFIC DIVISION . . . . .	90	22	6.9	56.2	4.3	7.8	24.1	132.4	109.4	244.3	3.3	(NA)	(NA)
OREGON . . . . .	4	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA . . . . .	83	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
3949-- SPORTING AND ATHLETIC GOODS, NEC													
UNITED STATES. . . . .	1 554	464	61.3	407.2	49.3	93.9	292.7	924.2	847.4	1 736.6	46.9	45.2	467.5
NORTHEAST REGION . . . . .	330	129	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	11.2	101.8
NEW ENGLAND DIVISION . . . . .	105	36	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	4.5	42.3
MAINE . . . . . E1	10	3	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
VERMONT . . . . .	5	4	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MASSACHUSETTS . . . . .	48	14	3.6	26.3	2.8	5.4	18.5	64.1	31.8	94.8	2.3	3.1	30.9
RHODE ISLAND . . . . .	12	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.2
CONNECTICUT . . . . .	26	11	.9	6.7	.7	1.3	4.3	12.5	8.8	21.5	1.2	.9	7.0
MIDDLE ATLANTIC DIVISION . . . .	225	93	11.5	85.0	8.8	17.2	63.5	186.9	257.9	444.0	8.8	6.6	59.5
NEW YORK . . . . . E1	109	45	5.0	31.0	3.9	7.4	20.4	87.9	103.3	184.5	3.0	FF	(0)
NEW JERSEY . . . . . E1	50	18	1.3	7.1	.9	1.5	4.5	21.0	17.7	37.1	1.8	1.0	9.2
PENNSYLVANIA . . . . .	66	30	5.3	46.9	4.0	8.3	38.5	78.0	136.9	222.5	4.1	EE	(0)
NORTH CENTRAL REGION . . . . .	487	145	18.4	123.0	15.0	28.5	88.8	278.3	250.7	520.0	13.4	16.4	180.6
EAST NORTH CENTRAL DIVISION. . .	332	100	12.5	89.1	10.2	19.4	64.9	199.2	181.0	372.1	8.0	12.6	141.1
OHIO . . . . .	60	18	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.9	50.3
INDIANA . . . . .	28	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	5.7
ILLINOIS . . . . .	100	31	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.4	33.5
MICHIGAN . . . . .	75	22	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.2	37.7
WISCONSIN . . . . .	69	21	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.5	13.9
WEST NORTH CENTRAL DIVISION. . .	155	45	5.9	33.8	4.8	9.0	23.9	79.1	69.7	148.0	5.3	3.7	39.5
MINNESOTA . . . . .	55	18	2.2	11.6	1.8	3.2	8.7	29.0	31.9	60.5	2.8	1.4	13.7
IOWA . . . . .	29	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.2	14.1
MISSOURI . . . . .	43	13	1.5	8.3	1.3	2.4	6.4	17.5	17.2	34.4	1.0	.8	8.9
NEBRASKA . . . . . E1	8	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
KANSAS . . . . . E7	15	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	1.0
SOUTH REGION . . . . .	358	103	15.8	91.9	13.2	25.2	66.0	219.6	164.2	369.8	10.1	11.6	121.9
SOUTH ATLANTIC DIVISION. . . . .	159	37	5.9	35.0	4.9	9.2	24.6	71.0	57.1	125.4	5.0	5.0	52.7
MARYLAND . . . . . E2	10	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
VIRGINIA . . . . .	14	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
NORTH CAROLINA . . . . . E7	20	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
SOUTH CAROLINA . . . . .	9	5	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
GEORGIA . . . . .	23	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
FLORIDA . . . . . E1	77	16	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
EAST SOUTH CENTRAL DIVISION. . .	69	29	4.5	26.9	3.9	7.4	20.3	69.6	47.5	112.9	1.7	2.9	33.8
KENTUCKY . . . . .	12	8	1.4	10.5	1.2	2.4	7.4	23.0	15.4	37.3	.5	CC	(0)
TENNESSEE . . . . .	24	13	1.6	7.9	1.4	2.6	6.7	23.9	17.6	38.7	.5	1.6	15.6
ALABAMA . . . . .	19	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	6.8
MISSISSIPPI . . . . .	14	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . .	130	37	5.3	30.0	4.4	8.7	21.1	79.0	59.6	131.5	3.3	3.7	35.5
ARKANSAS . . . . .	16	7	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.3	12.1
LOUISIANA . . . . .	16	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
OKLAHOMA . . . . .	19	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
TEXAS . . . . . E1	79	22	2.4	14.1	1.9	3.8	9.4	30.5	21.5	50.6	1.9	1.3	13.0

See footnotes at end of table.

TABLE 2 General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3949-- SPORTING AND ATHLETIC GOODS, NEC-- CONTINUED													
WEST REGION. . . . . E1	379	87	FF	(0)	(D)	(D)	(D)	(D)	(D)	(0)	(0)	6.1	65.2
MOUNTAIN DIVISION. . . . . E1	72	11	EE	(0)	(0)	(D)	(0)	(0)	(0)	(0)	(0)	1.1	7.2
COLORADO. . . . . E1	25	5	1.1	8.5	.9	1.7	6.2	9.9	10.7	18.7	1.8	CC	(0)
ARIZONA. . . . .	8	2	8d	(D)	(0)	(D)	(0)	(D)	(0)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	307	76	FF	(0)	(0)	(D)	(D)	(D)	(D)	(0)	(0)	4.8	56.3
WASHINGTON. . . . .	49	12	EE	(0)	(0)	(0)	(0)	(D)	(0)	(D)	(0)	.4	4.2
OREGON. . . . . E3	28	4	CC	(D)	(D)	(0)	(0)	(D)	(0)	(0)	(0)	.4	3.8
CALIFORNIA. . . . . E1	228	60	6.1	41.3	5.0	9.1	28.9	95.3	81.3	172.4	5.6	4.0	48.3

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing area are withheld to avoid disclosing figures for individual companies. However, for such area with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

TABLE 3. Detailed Statistics: 1972

(See appendix, Explanation of Terms)

Item	Musical instruments (SIC 3931)	Dolls (SIC 3942)	Games, toys, and children's vehicles (SIC 3944)	Sporting and athletic goods, n.e.c. (SIC 3949)
PRIMARY PRODUCT SPECIALIZATION RATIO <sup>1</sup> . . . . . PERCENT	97	99	86	89
COVERAGE RATIO <sup>2</sup> . . . . . .00 . .	99	68	92	94
ESTABLISHMENTS, TOTAL . . . . . .NUMBER .	344	243	665	1 554
WITH 1 TO 19 EMPLOYEES. . . . . .00 . .	233	138	380	1 090
WITH 20 TO 99 EMPLOYEES . . . . . .D0 . .	52	78	164	309
WITH 100 EMPLOYEES OR MORE. . . . . .D0 . .	59	27	121	155
ALL EMPLOYEES, AVERAGE FOR YEAR . . . . . 1,000 .	24.5	10.2	62.0	61.3
PAYROLL FOR YEAR, ALL EMPLOYEES . . . . . MILLION DOLLARS .	173.4	53.9	423.8	407.2
PRODUCTION WORKERS:				
AVERAGE FOR YEAR. . . . . 1,000 .	19.7	9.0	48.7	49.3
MARCH . . . . . .00 . .	18.7	7.6	40.5	49.3
MAY . . . . . .0D . .	19.3	8.4	45.2	49.8
AUGUST. . . . . .00 . .	20.0	10.0	53.2	48.9
NOVEMBER. . . . . .00 . .	20.9	9.9	56.0	49.3
MAN-HOURS . . . . . .MILLIONS .	38.3	16.2	92.6	93.9
JANUARY-MARCH . . . . . .D0 . .	9.3	3.2	18.6	23.3
APRIL-JUNE. . . . . .00 . .	9.5	3.9	22.0	24.5
JULY-SEPTEMBER. . . . . .0D . .	9.0	4.6	25.0	22.5
OCTOBER-DECEMBER. . . . . .0D . .	10.5	4.4	27.0	23.6
WAGES . . . . . .MILLION DOLLARS .	123.9	38.6	270.9	292.7
COST OF MATERIALS, ETC., TOTAL. . . . . .00 . .	296.7	101.5	763.8	847.4
MATERIALS, PARTS, CONTAINERS, ETC. CONSUMED . . . . . .00 . .	228.4	90.7	652.8	754.3
COST OF REALES . . . . . .00 . .	60.5	2.3	75.8	68.4
FUELS CONSUMED. . . . . .00 . .	2.0	.3	3.7	5.7
PURCHASED ELECTRIC ENERGY . . . . . .00 . .	2.6	1.1	9.6	8.6
CONTRACT WORK . . . . . .00 . .	3.2	7.1	21.9	10.3
VALUE OF SHIPMENTS, INCLUDING REALES . . . . . .00 . .	617.5	199.1	1 739.3	1 736.6
VALUE OF REALES. . . . . .00 . .	78.3	3.2	124.6	92.1
VALUE ADDED BY MANUFACTURE. . . . . .00 . .	339.4	98.3	983.4	924.2
MANUFACTURERS' INVENTORIES:				
BEGINNING OF YEAR, TOTAL. . . . . .00 . .	124.6	28.8	288.3	330.1
FINISHED PRODUCTS . . . . . .0D . .	31.6	14.3	130.7	143.3
WORK IN PROCESS . . . . . .0D . .	56.7	4.1	49.3	85.0
MATERIALS, SUPPLIES, FUEL, ETC. . . . . .0D . .	36.3	10.5	108.4	101.8
END OF YEAR, TOTAL. . . . . .00 . .	151.7	30.9	295.9	379.8
FINISHED PRODUCTS . . . . . .0D . .	38.1	15.2	129.4	172.7
WORK IN PROCESS . . . . . .0D . .	68.9	3.9	58.5	90.6
MATERIALS, SUPPLIES, FUEL, ETC. . . . . .0D . .	44.7	11.8	108.0	116.5
EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . .0D . .	11.2	1.8	75.6	50.3
NEW PLANT AND EQUIPMENT, TOTAL. . . . . .00 . .	10.6	1.7	72.9	46.9
NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . .00 . .	2.9	.4	22.7	17.4
NEW MACHINERY AND EQUIPMENT . . . . . .00 . .	7.7	1.4	50.2	29.5
USED PLANT AND EQUIPMENT. . . . . .00 . .	.7	.1	2.8	3.4

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
3931-- MUSICAL INSTRUMENTS											
ESTABLISHMENTS, TOTAL. . . . .	344	24.5	173.4	19.7	38.3	123.9	339.4	296.7	617.5	10.6	151.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E6	144	.3	1.8	.2	.4	1.2	3.9	5.3	9.0	.2	2.4
5 TO 9 EMPLOYEES . . . . . E7	53	.4	2.4	.3	.5	1.6	4.2	3.5	7.6	.3	1.9
10 TO 19 EMPLOYEES . . . . . E2	36	.5	3.5	.4	.8	2.4	5.9	3.8	9.8	.2	1.9
20 TO 49 EMPLOYEES . . . . .	33	1.1	7.6	.9	1.6	5.4	13.6	10.0	23.5	.9	5.3
50 TO 99 EMPLOYEES . . . . .	19	1.4	8.6	1.2	2.0	6.4	20.5	9.2	27.0	.4	7.4
100 TO 249 EMPLOYEES . . . . .	30	4.5	31.4	3.9	7.4	24.2	58.8	39.4	97.2	1.1	21.8
250 TO 499 EMPLOYEES . . . . .	14	4.8	36.2	3.7	7.4	23.6	63.9	103.6	166.6	2.3	31.4
500 TO 999 EMPLOYEES . . . . .	13	11.7	81.9	9.2	18.1	59.1	168.6	121.8	276.7	5.1	79.7
1,000 TO 2,499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	154	.5	3.2	.4	.7	2.2	6.1	5.0	11.1	.3	2.8
3942-- DOLLS											
ESTABLISHMENTS, TOTAL. . . . .	243	10.2	54.0	9.0	16.2	38.6	98.3	101.5	199.1	1.7	30.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	60	.1	.6	.1	.2	.4	1.6	1.5	3.1	(2)	.4
5 TO 9 EMPLOYEES . . . . . E7	42	.3	1.5	.3	.4	1.0	2.6	2.4	5.0	.1	.6
10 TO 19 EMPLOYEES . . . . . E3	36	.5	2.6	.4	.8	1.8	5.3	5.6	10.9	.1	1.5
20 TO 49 EMPLOYEES . . . . . E2	48	1.5	7.3	1.3	2.2	5.6	13.0	12.2	24.9	.2	2.8
50 TO 99 EMPLOYEES . . . . .	30	2.1	11.2	1.8	3.3	8.1	21.1	22.0	42.8	.7	5.3
100 TO 249 EMPLOYEES . . . . .	18	2.9	15.9	2.5	4.9	11.8	25.4	28.9	53.8	.2	10.1
250 TO 499 EMPLOYEES . . . . .	8	3.0	15.0	2.5	4.3	9.8	29.2	28.9	58.6	.4	10.2
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	97	.4	2.1	.4	.7	1.5	4.1	4.2	8.3	.1	1.1
3944-- GAMES, TOYS, CHILDREN'S VEHICLES											
ESTABLISHMENTS, TOTAL. . . . .	665	62.0	423.8	48.7	92.6	270.9	983.4	763.8	1 739.3	72.9	295.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	231	.4	2.4	.4	.5	1.5	7.8	5.7	13.5	.4	2.2
5 TO 9 EMPLOYEES . . . . . E7	74	.5	3.2	.4	.8	1.9	9.8	7.4	17.2	.5	2.4
10 TO 19 EMPLOYEES . . . . . E4	75	1.0	6.1	.8	1.4	3.6	17.4	13.1	30.1	1.1	4.1
20 TO 49 EMPLOYEES . . . . . E2	99	3.1	18.7	2.6	4.8	12.6	41.6	36.6	77.3	5.1	10.9
50 TO 99 EMPLOYEES . . . . . E2	65	4.5	26.0	3.8	6.7	17.2	58.5	45.3	102.5	3.9	19.8
100 TO 249 EMPLOYEES . . . . . E1	63	10.2	60.4	8.5	15.9	41.7	139.7	115.8	251.7	10.1	46.1
250 TO 499 EMPLOYEES . . . . .	31	11.0	70.4	9.0	16.8	47.9	163.4	119.0	280.7	12.9	49.4
500 TO 999 EMPLOYEES . . . . .	14	9.5	63.0	8.0	16.1	42.0	162.2	109.0	270.7	17.0	51.6
1,000 TO 2,499 EMPLOYEES . . . . .	12	21.8	173.6	15.3	29.5	102.6	383.1	312.0	695.6	22.0	109.4
2,500 EMPLOYEES OR MORE. . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	239	.9	5.2	.8	1.3	3.2	14.9	11.4	26.4	.8	4.5
3949-- SPORTING AND ATHLETIC GOODS, NEC											
ESTABLISHMENTS, TOTAL. . . . .	1 554	61.3	407.2	49.3	93.9	292.7	924.2	847.4	1 736.6	46.9	379.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	661	1.0	6.1	1.0	1.6	4.1	16.1	12.8	29.2	.7	7.1
5 TO 9 EMPLOYEES . . . . . E7	238	1.6	9.4	1.2	2.3	6.3	23.7	17.4	41.2	.8	9.5
10 TO 19 EMPLOYEES . . . . . E3	191	2.6	17.5	2.0	3.8	11.3	37.5	30.8	66.9	1.4	15.0
20 TO 49 EMPLOYEES . . . . .	204	6.4	37.9	5.2	9.3	25.4	84.5	74.6	156.1	3.8	30.4
50 TO 99 EMPLOYEES . . . . .	105	7.4	42.8	6.0	10.7	29.3	99.3	87.4	183.5	7.5	35.1
100 TO 249 EMPLOYEES . . . . .	101	15.6	96.6	12.7	24.2	70.3	244.0	213.8	440.3	13.5	115.0
250 TO 499 EMPLOYEES . . . . .	41	14.0	86.7	11.2	21.7	62.0	209.3	164.7	362.6	10.6	85.6
500 TO 999 EMPLOYEES . . . . .	8	5.4	45.0	4.3	9.1	33.3	103.3	81.9	180.5	4.7	37.9
1,000 TO 2,499 EMPLOYEES . . . . .	5	7.4	65.4	5.6	11.1	50.7	106.5	164.0	276.1	3.8	44.1
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup>	750	2.5	14.9	2.2	3.9	10.1	37.1	28.5	65.6	1.3	16.5

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars or man-hours; under 50 employees).

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number	Payroll	Number	Man-hours	Wages				
			(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)				
3931	MUSICAL INSTRUMENTS										
	ENTIRE INDUSTRY . . . . .	344	24.5	173.4	19.7	38.3	123.9	339.4	296.7	617.5	10.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	338	23.6	164.3	18.9	36.9	118.4	320.8	284.4	586.7	10.3
39311	PIANOS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	19	5.6	38.2	4.7	9.4	28.2	70.3	108.2	181.4	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39312	ORGANS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	27	8.6	55.7	6.5	12.8	40.2	128.2	95.3	207.9	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	27	8.6	55.7	6.5	12.8	40.2	128.2	95.3	207.9	2.9
39313	PIANO AND ORGAN PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	23	2.1	13.0	1.9	3.4	10.1	20.8	13.6	33.5	1.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39314	OTHER MUSICAL INSTRUMENTS AND PARTS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	76	7.2	60.3	5.9	11.4	41.0	108.9	70.8	174.7	4.0
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	70	6.1	50.7	5.0	9.7	35.1	91.1	57.2	143.2	3.8
3942	DOLLS										
	ENTIRE INDUSTRY . . . . .	243	10.2	54.0	9.0	16.2	38.6	98.3	101.5	199.1	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	226	9.5	50.3	8.2	14.9	35.2	93.7	99.8	192.5	1.5
3944	GAMES, TOYS, AND CHILDREN'S VEHICLES										
	ENTIRE INDUSTRY . . . . .	665	62.0	423.8	48.7	92.6	270.9	983.4	763.8	1 739.3	72.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	384	47.0	319.2	36.8	70.1	201.7	774.7	585.2	1 345.0	57.4
39441	GAMES, EXCLUDING TOYS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	40	6.3	47.8	4.9	9.4	30.3	144.3	84.9	221.7	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	33	4.2	31.5	3.3	6.3	19.2	106.8	56.5	160.7	6.2
39442	TOYS, EXCLUDING GAMES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	215	44.1	302.7	34.2	64.7	189.1	705.8	538.2	1 238.9	49.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	173	25.4	161.1	20.6	38.8	109.0	379.4	280.3	656.5	33.2
39443	BABY CARRIAGES, CHILDREN'S VEHICLES, EXC. BICYCLE (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	19	3.4	25.5	2.9	6.0	19.0	39.3	57.4	95.6	3.1
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	15	2.1	16.2	1.8	3.6	11.7	19.4	34.8	54.0	2.5
3949	SPORTING AND ATHLETIC GOODS, NEC										
	ENTIRE INDUSTRY . . . . .	1 554	61.3	407.2	49.3	93.9	292.7	924.2	847.4	1 736.6	46.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	1 502	51.0	328.2	41.3	77.7	231.8	759.8	641.2	1 369.6	38.3
39491	FISHING TACKLE AND EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	139	10.4	55.6	8.8	16.2	41.3	127.0	83.6	205.8	7.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	128	7.6	40.7	6.5	11.9	31.0	89.5	62.6	150.3	5.7
39492	GOLF EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	76	11.0	79.5	9.0	16.6	58.9	200.2	109.1	303.4	6.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	67	7.5	53.0	6.2	11.3	39.6	138.4	77.7	211.4	4.2
39494	PLAYGROUND, GYMNASIUM AND GYMNASIUM EQUIPMENT (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	48	3.7	26.4	2.7	5.4	17.1	59.7	63.1	123.1	1.8
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	36	2.3	16.6	1.7	3.3	10.4	40.6	40.3	81.5	.8
39495	OTHER SPORTING AND ATHLETIC GOODS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	291	28.8	201.9	22.7	44.6	145.7	433.2	511.1	925.9	22.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION . . . . .	255	21.9	143.3	17.4	33.6	99.6	320.4	342.9	642.3	16.1

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3931	Musical instruments.....1972..	617.5	520.6	16.8	80.1	97	525.5	520.6	4.9	99
	1967..	434.3	391.8	13.3	29.2	97	401.2	391.8	9.4	98
3942	Dolls.....1972..	199.1	189.7	2.8	6.6	99	277.9	189.7	88.2	68
	1967..	162.8	152.6	.3	9.9	99	217.0	152.6	64.4	70
3944	Games, toys, and children's vehicles.....1972..	1,739.3	1,384.7	221.7	132.9	86	1,500.7	1,384.7	116.0	92
	1967 <sup>1</sup> .	1,192.2	968.7	141.7	81.8	87	1,048.7	968.7	80.0	92
3949	Sporting and athletic goods, n.e.c.....1972..	1,736.6	1,453.6	181.1	101.9	89	1,538.8	1,453.6	85.2	94
	1967..	853.3	758.7	42.9	51.7	95	836.4	758.7	77.7	91

<sup>1</sup>1967 data represent the combination of 1967 industry 3941, Games and Toys, Except Dolls and Children's Vehicles, and 1967 industry 3943, Children's Vehicles, Except Bicycles.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Musical instruments (SIC 3931)	Dolls (SIC 3942)	Games, toys, and children's vehicles (SIC 3944)	Sporting and athletic goods, n.e.c. (SIC 3949)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	617.5	199.1	1,739.3	1,736.6	(X)
3931	Musical instruments.....	525.5	520.6	-	-	-	4.9
39311	Pianos.....	107.4	107.4	-	-	-	-
39312	Organs.....	188.3	(over 2)	-	-	-	(under 2)
39313	Piano and organ parts.....	54.6	52.3	-	-	-	2.3
39314	Other musical instruments and parts.....	156.0	(over 2)	-	-	-	(under 2)
39310	Musical instruments, n.s.k.....	19.2	19.2	-	-	-	-
3942	Dolls.....	277.9	-	189.7	(over 2)	(under 2)	-
3944	Games, toys, and children's vehicles.....	1,500.7	-	(2-5)	1,384.7	(10-20)	101.2
39441	Games, excluding toys.....	280.6	-	(under 2)	259.2	(over 2)	(over 2)
39442	Toys, excluding games.....	934.0	-	(under 2)	891.9	2.5	38.1
39443	Baby carriages and children's vehicles, except bicycles.....	126.1	-	-	96.5	(over 2)	(20-50)
39440	Games, toys, and children's vehicles, n.s.k.....	160.0	-	-	137.1	-	22.9
3949	Sporting and athletic goods, n.e.c.....	1,538.8	-	-	19.6	1,453.6	65.6
39491	Fishing tackle and equipment...	167.7	-	-	(under 2)	161.5	(over 2)
39492	Golf equipment.....	276.7	-	-	(under 2)	266.3	(over 2)
39494	Playground, gymnasium, and gymnastic equipment.....	107.4	-	-	8.6	94.4	4.4
39495	Other sporting and athletic goods.....	811.6	-	-	8.3	760.9	42.4
39490	Sporting and athletic goods, n.s.k.....	175.4	-	-	(under 2)	170.5	(over 2)

See footnotes at end of table.



TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Musical instruments (SIC 3931)	Dolls (SIC 3942)	Games, toys, and children's vehicles (SIC 3944)	Sporting and athletic goods, n.e.c. (SIC 3949)	Other industries
	Other product shipments by 4-digit product group:						
2298	Cordage and twine.....	(X)	-	-	-	(2-5)	(X)
2511	Wood household furniture.....	(X)	(under 2)	-	(over 2)	(5-10)	(X)
2514	Metal household furniture.....	(X)	-	-	(5-10)	(over 2)	(X)
2731	Book publishing.....	(X)	-	-	(over 2)	-	(X)
2732	Book printing.....	(X)	-	-	(over 2)	-	(X)
2741	Miscellaneous publishing.....	(X)	-	-	(over 2)	-	(X)
3011	Tires and innertubes.....	(X)	-	-	-	(2-5)	(X)
3069	Fabricated rubber products, n.e.c.....	(X)	-	-	-	(10-20)	(X)
3079	Misc. plastics products.....	(X)	(under 2)	19.0	36.1	(over 2)	(X)
3111	Leather tanning and finishing..	(X)	-	-	(over 2)	-	(X)
3469	Metal stampings, n.e.c.....	(X)	-	(under 2)	(2-5)	-	(X)
3483	Ammunition, except for small arms, n.e.c.....	(X)	-	-	(over 2)	-	(X)
3499	Fabricated metal prod., n.e.c..	(X)	-	(under 2)	5.4	-	(X)
3555	Printing trades machinery.....	(X)	-	-	-	(over 2)	(X)
3559	Special industry machinery, n.e.c.....	(X)	-	-	-	(over 2)	(X)
3621	Motors and generators.....	(X)	-	-	-	(over 2)	(X)
3645	Residential lighting fixtures..	(X)	(under 2)	-	-	(over 2)	(X)
3662	Radio and TV communication equipment.....	(X)	(over 2)	(under 2)	(under 2)	-	(X)
3679	Electronic components, n.e.c...	(X)	(under 2)	-	(2-5)	-	(X)
3732	Boat building and repairing....	(X)	-	-	-	(2-5)	(X)
3799	Transportation equipment, n.e.c.	(X)	-	-	(5-10)	(2-5)	(X)
3842	Surgical appliances, supplies..	(X)	-	-	-	(2-5)	(X)
3861	Photographic equipment and supplies.....	(X)	(under 2)	-	3.0	(under 2)	(X)
3952	Pens, pencils, office and art supplies.....	(X)	-	-	(over 2)	(under 2)	(X)
3963	Buttons.....	(X)	-	-	(over 2)	-	(X)
	Other secondary products.....	(X)	6.1	(under 2)	33.2	22.7	(X)
	Miscellaneous receipts, total....	(X)	80.1	6.6	132.9	101.9	(X)
93000	Contract work.....	(X)	.4	3.4	3.7	6.0	(X)
99989	Resales.....	(X)	78.3	3.2	124.6	92.1	(X)
99980	Other miscellaneous receipts...	(X)	1.4	-	4.2	3.8	(X)
Product code	Industry, class of products, and miscellaneous receipts						Other industries
	Listing of the other industries with over \$2 million shipments of the primary product						
3944	2048 Prepared feeds, n.e.c.....						(over 2)
3944	2298 Cordage and twine.....						(over 2)
3944	2514 Metal household furniture.....						8.5
3944	2653 Corrugated and solid fiber boxes.....						(over 2)
3944	2771 Greeting card publishing.....						(over 2)
3944	3069 Fabricated rubber products.....						(2-5)
3944	3079 Miscellaneous plastics products.....						27.3
3944	3429 Hardware, n.e.c.....						(over 2)
3944	3469 Metal stampings, n.e.c.....						8.0
3944	3631 Household cooking equipment.....						(over 2)
3944	3651 Radio and TV receiving sets.....						(over 2)
3944	3751 Motorcycles, bicycles, and parts.....						(10-20)
3949	3041 Rubber and plastics hose and belting.....						(over 2)
3949	3069 Fabricated rubber products.....						(5-10)
3949	3079 Miscellaneous plastics products.....						4.3
3949	3161 Luggage.....						3.5
3949	3569 General industry machinery, n.e.c.....						(over 2)
3949	3714 Motor vehicle parts and accessories.....						(2-5)

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3931- --	MUSICAL INSTRUMENTS AND PARTS, TOTAL.....	.....	(X)	525.5	(X)	401.2 <sup>e</sup>
39311 --	Pianos.....	.....	(X)	107.4	(X)	91.2
39311 11	Verticals, uprights, or consoles, 37 inches in height or less...	1,000 units...	90.3	37.3	119.2	46.0
39311 15	Verticals, uprights, or consoles, over 37 inches in height.....	...do.....	109.1	56.2	74.2	34.9
39311 51	Grand pianos.....	...do.....	6.5	13.9	5.9	10.3
39312 --	Organs.....	.....	(X)	188.3	(X)	126.2
39312 11	Pipe and reed.....	1,000 units...	(NA)	11.7	(NA)	15.8
39312 51	Electronic.....	...do.....	(X)	176.6	(NA)	110.4
39313 --	Piano and Organ Parts.....	.....	(X)	54.6	(X)	46.0
39313 11	Piano parts and materials (actions, attachments, strings, tuning pins, etc.), except benches.....	.....	(X)	41.1	(X)	36.3
39313 51	Organ parts and materials, except benches.....	.....	(X)	13.5	(X)	9.7
39314 --	Other Musical Instruments and Parts.....	.....	(X)	156.0	(X)	123.4
	Wind instruments, except organs and accordions:					
39314 13	Woodwinds.....	1,000 units...	(NA)	26.2	260.8	23.3
39314 15	Brass winds.....	...do.....	(NA)	24.6	234.2	26.0
39314 23	Fretted instruments, nonelectronic only, such as guitars, banjos, mandolins, and ukeleles.....	...do.....	(NA)	15.7	(NA)	14.4
39314 25	String instruments, such as violins, violas, bass, and cello....	...do.....				
39314 31	Accessories and parts, sold separately, such as reed mouthpieces, music stands, and drummers' traps, except instrument cases and benches.....	.....	(X)	26.5	(X)	18.1
39314 51	Electronic musical instruments other than electronic organs.....	.....	(X)	34.2	(X)	19.2
39314 98	Other nonelectronic musical instruments, including harps, accordions, and percussion instruments, such as drums, and vibes.....	.....	(X)	28.5	(X)	21.6
39314 00	Other musical instruments and parts, n.s.k.....	.....	(X)	.3	(X)	.7
39310 00	Musical instruments, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	8.1	(X)	10.2
39310 02	Musical instruments, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	11.1	(X)	4.2
3942- --	DOLLS, TOTAL.....	.....	(X)	277.9	(X)	217.0
	Dolls, Complete, Made of Rubber, or Similar Materials (Except Stuffed Dolls):					
39420 06	Regular size, over 12 inches.....	Million units.	13.6	63.1	41.9	94.5
39420 07	Miniature, 12 inches and under.....	...do.....	38.0	49.3	16.0	18.9
39420 08	Stuffed dolls.....	...do.....	(NA)	25.0	6.7	12.2
39420 16	Doll parts.....	.....	(X)	7.2	(X)	16.5
39420 18	Doll clothes and accessories.....	.....	(X)	28.8	(X)	6.2
39420 53	Stuffed toy animals.....	Million units.	49.5	70.1	29.0	43.4
39420 55	Other stuffed toys, including puppets.....	.....	(X)	11.0	(X)	4.6
39420 00	Dolls and stuffed toy animals, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	15.1	(X)	15.3
39420 02	Dolls and stuffed toy animals, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	8.3	(X)	5.3
3944- --	GAMES, TOYS, AND CHILDREN'S VEHICLES, TOTAL.....	.....	(X)	1,500.7	(X)	1,048.8
39441 --	Games, Excluding Toys <sup>2</sup> .....	.....	(X)	280.6	(X)	154.2
	Games and puzzles:					
39441 91	Board games (chess, checkers, etc.).....	.....	(X)	135.1	(X)	104.6
39441 92	Sports oriented action games (football, baseball, etc.).....	.....	(X)	52.2	(X)	10.7
39441 94	Other, including puzzles.....	.....	(X)	87.5	(X)	38.9
39441 97	Parts for games.....	.....	(X)	5.8	(X)	( <sup>3</sup> )
39442 --	Toys, Excluding Games <sup>2</sup> .....	.....	(X)	934.0	(X)	677.6
39442 11	Doll carriages and doll carts.....	1,000 units...	1,885.5	7.5	(X)	22.0
39442 15	Dollhouses and furniture.....	.....	(X)	33.5		
39442 21	Toy trains and equipment, mechanical and electric.....	.....	(X)	31.0	(X)	10.7
	Mechanically powered toys, except trains and vehicle racing sets:					
39442 33	Battery operated.....	.....	(X)	42.6	(X)	37.5
39442 35	Other, including those powered by spring and friction motors..	.....	(X)	4.0	(X)	4.1
39442 36	Vehicular racing sets, including accessories and parts.....	.....	(X)	63.6	(X)	42.4
39442 38	Nonpowered transportation toys (nonriding), excluding model kits, but including boats, cars, trucks, etc.....	.....	(X)	90.9	(X)	53.5

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3944- --	GAMES, TOYS, AND CHILDREN'S VEHICLES--Continued					
39442 --	Toys, Excluding Games--Continued					
	Handicraft, hobby, structural, and model kits, sets, and components:					
39442 41	Structural kits, sets, and components.....		(X)	12.1	(X)	134.3
39442 51	Model construction sets (automobiles, airplanes, ships, trains, etc.).....		(X)	72.0		
39442 55	Other, including handicraft and hobby kits.....		(X)	60.8		
39442 63	Scientific toys (microscopes, chemistry sets, telegraph sets, mineralogy sets, etc.).....		(X)	8.6	(X)	7.6
39442 65	Toy guns, gun sets, and rifles.....		(X)	55.0	(X)	49.3
39442 67	Infant and preschool toys, n.e.c., including musical toys and toy musical instruments.....		(X)	258.3	(X)	82.0
39442 73	Children's books (coloring books and picture-word books).....		(X)	26.3	(X)	210.8
39442 87	Other toys not listed above.....		(X)	148.4	(X)	23.4
39442 95	Parts for toys.....		(X)	19.4	(X)	
39443 --	Baby Carriages and Children's Vehicles, Except Bicycles <sup>2</sup> .....		(X)	126.1	(X)	96.2
39443 11	Baby carriages, including combination carriage-strollers.....	1,000 units...	197.8	5.5	320	8.2
39443 15	Strollers.....	..do.....	1,644.4	18.1	1,454	16.3
39443 21	Baby walkers.....	..do.....	762.7	4.9	978	3.3
39443 33	Children's automobiles and tractors, pedal driven.....	..do.....	1,567.9	12.0	1,019	9.7
39443 43	Velocipedes (3-wheeled) and tricycles, including chain driven tricycles.....	..do.....	5,063.8	42.6	3,271	23.7
39443 61	Children's wagons (coaster, express, and other).....				(X)	( <sup>4</sup> )
39443 71	Sleds.....	1,000 units...	(X)	1.5	1,186	4.9
39443 81	Parts for children's vehicles, sold separately.....		(X)	.4	(X)	1.6
39443 98	Other children's vehicles, including scooters, sidewalk cycles, 3-wheel play cars, etc.....	1,000 units...	3,828.3	41.1	(NA)	<sup>4</sup> 28.5
39440 00	Games, toys, and children's vehicles, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	133.6	(X)	111.4
39440 02	Games, toys, and children's vehicles, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	26.4	(X)	9.4
3949- --	SPORTING AND ATHLETIC GOODS, N.E.C., TOTAL.....		(X)	1,538.8	(X)	836.4
39491 --	Fishing Tackle and Equipment.....		(X)	167.7	(X)	111.1
	Fishing tackle:					
39491 14	Fishing rods, all types.....	1,000 units...	10,793.2	36.3	9,741	31.5
39491 15	Fishing reels.....	..do.....	9,683.9	43.4	7,209	30.1
39491 16	Fishhooks, including snelled hooks; casting plugs, spinners, and spoons; flies, lures, and similar artificial baits.....		(X)	43.5	(X)	24.0
39491 19	Other fishing tackle, including tackle boxes, creels, fish and bait buckets, floats, furnished lines, sinkers, snap swivels, etc.....		(X)	40.7	(X)	24.3
39491 00	Fishing tackle and equipment, n.s.k.....		(X)	3.8	(X)	1.2
39492 --	Golf Equipment.....		(X)	276.7	(X)	158.6
39492 31	Golf balls.....	1,000 dozens..	13,468	81.5	10,279	46.5
	Golf clubs:					
39492 42	Irons with steel shaft.....	1,000 units...	12,402	88.0	7,600	44.0
39492 43	Irons with aluminum shaft.....	..do.....				
39492 44	Woods with steel shaft.....	..do.....				
39492 46	Woods with aluminum shaft.....	..do.....	3,994	38.5	3,742	27.7
39492 47	Golf bags.....	..do.....	1,645	21.9	1,072	11.3
39492 98	Other golf equipment, such as carts for carrying golf bags, shafts sold as such, tees, and training devices for putting and driving (excludes shoes and apparel).....		(X)	42.2	(X)	25.2
39492 00	Golf equipment, n.s.k.....		(X)	4.6	(X)	3.8
39494 --	Playground, Gymnasium, and Gymnastic Equipment.....		(X)	107.4	(X)	74.5
39494 62	Home playground equipment, including swing sets, slides, seesaws, sandboxes, etc.....		(X)	25.6	(X)	74.5
39494 63	Institutional and commercial playground equipment, heavy duty, including swings, slides, etc.....		(X)	25.4		
39494 65	Gymnasium and gymnastic apparatus and equipment, including parallel and horizontal bars, balance beams, trampolines, wrestling and othe gymnasium mats, etc.....		(X)	28.6		
39494 67	Health, physical fitness, and exercising equipment, including barbells and dumbbells, jogging machines, slantboards, etc...		(X)	27.8		

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
	SPORTING AND ATHLETIC GOODS, N.E.C.--Continued					
39495 --	Other Sporting and Athletic Goods.....		(X)	811.6	(X)	395.8
39495 11	Billiard and pool tables.....	1,000 units...	393	65.4	364	52.3
39495 15	Billiard and pool supplies, such as balls and cues sold separately.....		(X)	32.3	(X)	5.4
39495 25	Bowling alleys.....	1,000 units...			(NA)	5.2
39495 28	Bowling alley playing supplies: Bowling balls.....	...do.....	(X)	197.8	(NA)	24.4
39495 29	Other bowling alley playing supplies, including pins, bowling pinsetters, etc.....				(X)	40.9
39495 31	Baseballs.....	1,000 dozens..	564	8.2	655	8.4
39495 33	Softballs and indoor type baseballs.....	...do.....	425	7.1	398	4.2
39495 35	Baseball bats, including softball bats.....	1,000 units...	9,362	20.0	7,404	9.7
39495 37	Baseball mitts and gloves.....	1,000 dozens..	39	4.2	73	6.4
39495 41	Footballs.....	...do.....	421	17.7	(NA)	10.5
39495 43	Basketballs.....	...do.....	339	19.0	276	11.5
39495 49	Inflatable athletic balls other than footballs and basketballs, including soccerballs, volleyballs, etc.....	...do.....	1,609	18.0	(NA)	7.6
39495 51	Sidewalk and rink roller skates.....	1,000 pairs...	3,461	20.6	2,012	7.5
39495 55	Ice skates.....	...do.....	728	5.7	1,572	7.5
39495 71	Snow skis.....		339	22.8	(X)	17.5
39495 73	Winter sports equipment, such as snow ski poles, bobsleds, toboggans and hockey goods, but excluding athletic clothing, body protective equipment, skates, shoes, children's sleds, and skis.....		(X)	17.3	(X)	6.8
39495 75	Water skis.....	1,000 pairs...	508.8	11.0	(X)	4.2
39495 77	Underwater sports equipment (SCUBA), skindiving equipment such as aqualungs and attachments, face masks, fins, etc., exclud- ing clothing, watches, and cameras.....		(X)	28.2	(X)	13.8
39495 81	Tennis, badminton, and related equipment, including tennis balls, rackets, frames, shuttlecocks, squash equipment, and other supplies.....		(X)	56.8	(X)	11.2
39495 85	Archery equipment.....		(X)	21.9	(X)	22.2
39495 91	Body protective equipment of all types for baseball, football, soccer, lacrosse, hockey, fencing, and other sports, includ- ing helmets, masks, chestpads, shoulderpads, kneepads, skin guards, mouth guards, etc.....		(X)	42.1		
39595 93	Football, baseball, and soccer equipment, n.e.c., including track, field, and miscellaneous athletic field equipment, goal posts and nets, training devices for batting and pitching, javelins, shot-puts, etc.....		(X)	9.5		
39495 95	Wading pools and other aboveground swimming pools under 15 feet in diameter, not filtered, including plastic and metal-walled types.....		(X)	6.7	(X)	110.2
39495 97	Aboveground swimming pools, 15 feet in diameter and over, filtered (completely manufactured).....		(NA)	28.7		
39495 98	Other sporting and athletic goods, including table tennis goods, water skiing equipment (except skis), diving boards, surf- boards, other water sports equipment (n.e.c.); skeet and shooting range equipment (decoys, clay pigeons, trap target launchers, etc.) but excluding firearms, ammunition, athletic clothing, and shoes.....		(X)	126.3		
39495 00	Other sporting and athletic goods, n.s.k.....		(X)	24.3	(X)	8.5
39490 00	Sporting and athletic goods, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	109.8	(X)	69.9
39490 02	Sporting and athletic goods, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	65.6	(X)	26.5

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

<sup>1</sup>Comparable data were published in Current Industrial Reports (CIR) Series MA-36N, "Selected Electronic and Associated Products." A review of the CIR and census of manufactures tabulations indicates that the CIR was understated for 1972. Revised CIR figures are as follows: 1972, 193.4 thousand units valued at \$178.1 million; and 1971, 159.8 thousand units valued at \$144.1 million.

<sup>2</sup>The product class (5-digit coding) structure for this industry has been significantly revised.

<sup>3</sup>For 1967, parts for toys and games were not collected separately. Accordingly, the value for product code 39441 97 is included with product code 39442 95.

<sup>4</sup>Data for children's wagons are included with product code 39443 98, "Other children's vehicles..." to avoid disclosing figures for individual companies.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
PIANOS (39311)			PIANO AND ORGAN PARTS (39313)--Continued		
United States.....	107.4	(NA)	South Region.....	32.7	(NA)
Northeast Region.....	EE	(NA)	South Atlantic Division.....	EE	(NA)
New England Division.....	BB	(NA)	South Carolina.....	CC	(NA)
Rhode Island.....	AA	(NA)	East South Central Division.....	EE	(NA)
Middle Atlantic Division.....	CC	(NA)	Tennessee.....	BB	(NA)
New York.....	EE	(NA)	Mississippi.....	EE	(NA)
North Central Region.....	32.3	(NA)	West South Central Division.....	BB	(NA)
East North Central Division.....	32.3	(NA)	Texas.....	BB	(NA)
Ohio.....	AA	(NA)	West Region.....	BB	(NA)
Indiana.....	FF	(NA)	Pacific Division.....	BB	(NA)
Illinois.....	CC	(NA)	Washington.....	BB	(NA)
Michigan.....	CC	(NA)			
South Region.....	52.0	(NA)	OTHER MUSICAL INSTRUMENTS AND PARTS (39314)		
South Atlantic Division.....	EE	(NA)	United States.....	156.0	123.4
North Carolina.....	EE	(NA)	Northeast Region.....	20.7	19.9
East South Central Division.....	29.8	(NA)	New England Division.....	6.7	3.9
Tennessee.....	EE	(NA)	Massachusetts.....	BB	3.7
Mississippi.....	EE	(NA)	Connecticut.....	BB	(NA)
West South Central Division.....	CC	(NA)	Middle Atlantic Division.....	13.9	16.0
Arkansas.....	CC	(NA)	New York.....	6.5	5.7
West Region.....	BB	(NA)	New Jersey.....	BB	CC
Mountain Division.....	BB	(NA)	Pennsylvania.....	BB	BB
Utah.....	BB	(NA)	North Central Region.....	103.4	86.8
ORGANS (39312)			East North Central Division.....	GG	GG
United States.....	188.3	126.2	Ohio.....	18.3	CC
Northeast Region.....	12.7	11.9	Indiana.....	28.6	36.0
New England Division.....	AA	BB	Illinois.....	26.3	24.4
Connecticut.....	AA	AA	Michigan.....	EE	CC
Middle Atlantic Division.....	EE	CC	Wisconsin.....	CC	9.6
New York.....	AA	2.3	West North Central Division.....	CC	BB
New Jersey.....	BB	AA	Kansas.....	CC	BB
Pennsylvania.....	CC	CC	South Region.....	4.0	3.6
North Central Region.....	97.5	72.6	South Atlantic Division.....	1.4	(NA)
East North Central Division.....	GG	71.0	North Carolina.....	AA	(NA)
Ohio.....	BB	AA	West South Central Division.....	AA	BB
Indiana.....	FF	EE	Arkansas.....	AA	AA
Illinois.....	GG	57.2	West Region.....	27.9	13.0
West North Central Division.....	AA	AA	Mountain Division.....	CC	AA
Kansas.....	AA	AA	Arizona.....	CC	AA
South Region.....	47.0	FF	Utah.....	AA	(NA)
South Atlantic Division.....	BB	CC	Pacific Division.....	FF	EE
Maryland.....	BB	BB	California.....	21.2	10.2
East South Central Division.....	FF	EE			
Tennessee.....	CC	(NA)	DOLLS AND STUFFED TOY ANIMALS (39420)		
Mississippi.....	EE	EE	United States.....	277.9	217.0
West South Central Division.....	EE	EE	Northeast Region.....	194.9	162.5
Arkansas.....	EE	EE	New England Division.....	FF	13.9
West Region.....	31.2	EE	New Hampshire.....	3.3	(NA)
Pacific Division.....	31.2	EE	Vermont.....	AA	(NA)
Oregon.....	BB	AA	Massachusetts.....	8.3	5.0
California.....	FF	EE	Rhode Island.....	FF	(NA)
PIANO AND ORGAN PARTS (39313)			Connecticut.....	BB	2.6
United States.....	54.6	(NA)	Middle Atlantic Division.....	GG	148.5
Northeast Region.....	CC	(NA)	New York.....	113.6	116.0
New England Division.....	BB	(NA)	New Jersey.....	37.8	27.3
Connecticut.....	BB	(NA)	Pennsylvania.....	BB	5.2
Middle Atlantic Division.....	BB	(NA)	North Central Region.....	28.9	8.3
New York.....	2.2	(NA)	East North Central Division.....	EE	(NA)
Pennsylvania.....	AA	(NA)	Ohio.....	CC	(NA)
North Central Region.....	10.4	(NA)	Illinois.....	4.1	(NA)
East North Central Division.....	EE	(NA)	West North Central Division.....	EE	CC
Ohio.....	BB	(NA)	Minnesota.....	CC	3.5
Illinois.....	6.0	(NA)	Missouri.....	7.8	2.7

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
DOLLS AND STUFFED TOY ANIMALS (39420)--Continued			TOYS, EXCLUDING GAMES (39442)--Continued		
South Region.....	EE	EE	South Region--Continued		
South Atlantic Division.....	EE	EE	East South Central Division.....	21.0	(NA)
South Carolina.....	CC	CC	Kentucky.....	BB	(NA)
Georgia.....	BB	BB	Tennessee.....	14.2	(NA)
Florida.....	BB	BB	Alabama.....	BB	(NA)
West South Central Division.....	AA	(NA)	West South Central Division.....	35.8	(NA)
Oklahoma.....	AA	(NA)	Arkansas.....	FF	(NA)
			Texas.....	CC	(NA)
West Region.....	FF	FF	West Region.....	125.2	(NA)
Pacific Division.....	FF	FF	Mountain Division.....	8.1	(NA)
California.....	FF	FF	Colorado.....	CC	(NA)
			Pacific Division.....	117.2	(NA)
GAMES, EXCLUDING TOYS (39441)			Oregon.....	BB	(NA)
United States.....	280.6	(NA)	California.....	GG	(NA)
Northeast Region.....	174.2	(NA)			
New England Division.....	92.9	(NA)	BABY CARRIAGES AND CHILDREN'S VEHICLES, EXCEPT BICYCLES (39443)		
Massachusetts.....	GG	(NA)	United States.....	126.1	99.6
Rhode Island.....	CC	(NA)	Northeast Region.....	21.2	19.9
Middle Atlantic Division.....	81.3	(NA)	New England Division.....	BB	4.8
New York.....	76.8	(NA)	Massachusetts.....	BB	3.9
New Jersey.....	BB	(NA)	Middle Atlantic Division.....	EE	15.0
			New York.....	6.8	9.9
North Central Region.....	77.9	(NA)	New Jersey.....	AA	(NA)
East North Central Division.....	42.6	(NA)	Pennsylvania.....	9.9	BB
Ohio.....	CC	(NA)			
Indiana.....	CC	(NA)	North Central Region.....	46.9	42.7
Illinois.....	10.4	(NA)	East North Central Division.....	39.7	38.1
Michigan.....	AA	(NA)	Indiana.....	AA	AA
Wisconsin.....	EE	(NA)	Illinois.....	FF	FF
West North Central Division.....	35.3	(NA)	Wisconsin.....	BB	BB
Minnesota.....	EE	(NA)	West North Central Division.....	7.2	4.6
Iowa.....	EE	(NA)	Minnesota.....	AA	(NA)
Missouri.....	CC	(NA)	Missouri.....	BB	BB
South Region.....	11.2	(NA)			
South Atlantic Division.....	BB	(NA)	South Region.....	46.9	30.5
West Virginia.....	AA	(NA)	South Atlantic Division.....	FF	BB
North Carolina.....	AA	(NA)	West Virginia.....	EE	BB
East South Central Division.....	CC	(NA)	North Carolina.....	CC	(NA)
Tennessee.....	CC	(NA)			
West South Central Division.....	AA	(NA)	East South Central Division.....	FF	FF
Arkansas.....	AA	(NA)	Kentucky.....	AA	AA
			Tennessee.....	EE	EE
West Region.....	17.3	(NA)	Alabama.....	CC	CC
Pacific Division.....	EE	(NA)			
California.....	EE	(NA)	West Region.....	11.2	6.6
			Pacific Division.....	EE	CC
TOYS, EXCLUDING GAMES (39442)			California.....	EE	CC
United States.....	934.0	(NA)			
Northeast Region.....	406.0	(NA)	FISHING TACKLE AND EQUIPMENT (39491)		
New England Division.....	69.2	(NA)	United States.....	167.7	111.1
New Hampshire.....	CC	(NA)	Northeast Region.....	26.2	20.0
Massachusetts.....	25.0	(NA)	New England Division.....	3.9	2.8
Rhode Island.....	FF	(NA)	Rhode Island.....	1.5	(NA)
Connecticut.....	BB	(NA)	Connecticut.....	2.0	AA
Middle Atlantic Division.....	336.8	(NA)			
New York.....	204.4	(NA)	Middle Atlantic Division.....	22.3	17.1
New Jersey.....	96.9	(NA)	New York.....	CC	8.7
Pennsylvania.....	35.4	(NA)	New Jersey.....	AA	(NA)
			Pennsylvania.....	EE	CC
North Central Region.....	293.0	(NA)			
East North Central Division.....	252.8	(NA)	North Central Region.....	51.2	34.0
Ohio.....	86.4	(NA)	East North Central Division.....	29.0	25.2
Indiana.....	CC	(NA)	Ohio.....	2.8	3.6
Illinois.....	93.1	(NA)	Indiana.....	1.9	1.6
Michigan.....	33.7	(NA)	Illinois.....	8.3	5.3
Wisconsin.....	FF	(NA)	Michigan.....	7.1	8.0
West North Central Division.....	40.3	(NA)	Wisconsin.....	9.0	6.6
Minnesota.....	28.8	(NA)			
Iowa.....	CC	(NA)	West North Central Division.....	22.1	8.8
Missouri.....	AA	(NA)	Minnesota.....	11.1	3.0
South Region.....	109.8	(NA)	Iowa.....	CC	4.2
South Atlantic Division.....	53.0	(NA)	Missouri.....	AA	(NA)
Maryland.....	12.6	(NA)	Nebraska.....	AA	(NA)
West Virginia.....	EE	(NA)			
North Carolina.....	EE	(NA)			
South Carolina.....	AA	(NA)			
Georgia.....	CC	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
FISHING TACKLE AND EQUIPMENT (39491)--Continued			PLAYGROUND AND GYMNASIUM AND GYMNASIAC EQUIPMENT (39494)--Continued		
South Region.....	63.6	39.0	North Central Region.....	48.1	(NA)
South Atlantic Division.....	23.0	16.0	East North Central Division.....	30.9	(NA)
Virginia.....	AA	AA	Indiana.....	3.1	(NA)
South Carolina.....	EE	CC	Illinois.....	13.8	(NA)
Florida.....	9.9	5.6	Michigan.....	EE	(NA)
East South Central Division.....	8.1	1.2	Wisconsin.....	BB	(NA)
Kentucky.....	BB	(NA)	West North Central Division.....	17.1	(NA)
Tennessee.....	2.0	(NA)	Iowa.....	EE	(NA)
Alabama.....	BB	(NA)	Missouri.....	8B	(NA)
West South Central Division.....	32.5	21.8	Nebraska.....	AA	(NA)
Arkansas.....	7.6	CC	South Region.....	33.2	(NA)
Oklahoma.....	FF	EE	East South Central Division.....	EE	(NA)
Texas.....	BB	2.7	Alabama.....	EE	(NA)
West Region.....	26.7	18.2	West South Central Division.....	FF	(NA)
Mountain Division.....	7.9	6.6	Louisiana.....	EE	(NA)
Idaho.....	AA	AA	Texas.....	4.8	(NA)
Colorado.....	CC	BB	West Region.....	13.6	(NA)
Pacific Division.....	18.8	11.7	Pacific Division.....	13.0	(NA)
Washington.....	BB	BB	Washington.....	AA	(NA)
Oregon.....	BB	(NA)	California.....	11.5	(NA)
California.....	11.7	8.3			
GOLF EQUIPMENT (39492)			OTHER SPORTING AND ATHLETIC GOODS (39495)		
United States.....	276.7	158.6	United States.....	811.6	(NA)
Northeast Region.....	75.6	52.8	Northeast Region.....	290.7	(NA)
New England Division.....	68.0	47.0	New England Division.....	56.6	(NA)
Maine.....	AA	(NA)	Maine.....	BB	(NA)
Massachusetts.....	GG	FF	Vermont.....	BB	(NA)
Rhode Island.....	CC	CC	Massachusetts.....	35.2	(NA)
Connecticut.....	CC	AA	Rhode Island.....	AA	(NA)
Middle Atlantic Division.....	7.6	5.8	Connecticut.....	12.9	(NA)
New Jersey.....	BB	BB	Middle Atlantic Division.....	234.0	(NA)
Pennsylvania.....	4.5	2.3	New York.....	116.3	(NA)
North Central Region.....	80.6	51.4	New Jersey.....	21.9	(NA)
East North Central Division.....	77.2	46.7	Pennsylvania.....	95.9	(NA)
Ohio.....	16.5	15.3	North Central Region.....	258.3	(NA)
Indiana.....	BB	(NA)	East North Central Division.....	189.3	(NA)
Illinois.....	36.5	20.7	Ohio.....	38.2	(NA)
Michigan.....	EE	CC	Indiana.....	CC	(NA)
Wisconsin.....	8.0	BB	Illinois.....	36.1	(NA)
West North Central Division.....	3.4	4.7	Michigan.....	GG	(NA)
Iowa.....	AA	AA	Wisconsin.....	22.5	(NA)
Missouri.....	AA	AA	West North Central Division.....	69.0	(NA)
South Region.....	97.2	46.3	Minnesota.....	32.1	(NA)
South Atlantic Division.....	FF	EE	Iowa.....	5.8	(NA)
South Carolina.....	CC	BB	Missouri.....	29.2	(NA)
Georgia.....	FF	EE	Kansas.....	2.0	(NA)
East South Central Division.....	48.1	FF	South Region.....	131.5	(NA)
Kentucky.....	EE	BB	South Atlantic Division.....	51.9	(NA)
Tennessee.....	EE	EE	Virginia.....	EE	(NA)
Alabama.....	CC	BB	West Virginia.....	AA	(NA)
Mississippi.....	EE	(NA)	South Carolina.....	6.3	(NA)
West South Central Division.....	EE	4.9	Georgia.....	BB	(NA)
Arkansas.....	CC	AA	Florida.....	22.2	(NA)
Texas.....	CC	BB	East South Central Division.....	35.8	(NA)
West Region.....	23.2	8.0	Kentucky.....	21.0	(NA)
Mountain Division.....	CC	AA	Tennessee.....	10.4	(NA)
Arizona.....	CC	AA	Alabama.....	BB	(NA)
Pacific Division.....	EE	CC	West South Central Division.....	43.9	(NA)
Oregon.....	AA	BB	Arkansas.....	EE	(NA)
California.....	14.6	BB	Texas.....	29.2	(NA)
PLAYGROUND AND GYMNASIUM AND GYMNASIAC EQUIPMENT (39494)			West Region.....	131.2	(NA)
United States.....	107.4	(NA)	Mountain Division.....	12.2	(NA)
Northeast Region.....	12.4	(NA)	Colorado.....	6.0	(NA)
Middle Atlantic Division.....	EE	(NA)	Arizona.....	BB	(NA)
New Jersey.....	BB	(NA)	Nevada.....	BB	(NA)
Pennsylvania.....	7.7	(NA)	Pacific Division.....	118.9	(NA)
			Washington.....	EE	(NA)
			Oregon.....	BB	(NA)
			California.....	101.8	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9  
BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9  
EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9  
GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958		
3931-	Musical instruments.....	525.5	447.1	437.1	475.9	444.5	401.2	319.4	242.1		
39311	Pianos.....	107.4	92.7	93.4	96.8	96.5	91.2	87.7	63.7		
39312	Organs.....	188.3	162.1	150.0	148.2	141.1	126.2	107.3	79.4		
39313	Piano and organ parts.....	54.6	30.5	29.6	51.0	49.8	46.0	42.3	51.1		
39314	Other musical instruments and parts.....	156.0	151.8	158.6	172.2	148.6	123.4	77.7	47.9		
39310	Musical instruments, n.s.k.....	19.2	(10.0)	(5.5)	(7.7)	(8.5)	14.4	4.4	0-		
39420	Dolls and stuffed toy animals.....	277.9	241.8	229.4	244.7	239.9	217.0	190.4	161.9		
3944-	Games, toys, and children's vehicles.....	1,500.7	1,352.4	1,388.8	1,302.4	1,193.5	1,048.7	846.6	594.9		
39441	Games, excluding toys.....	280.6	1,214.4	1,258.6	1,175.0	1,078.0	949.1	763.9	522.0		
39442	Toys, excluding games.....	934.0									
39440	Games, toys, children's vehicles, n.s.k.....	160.0									
39443	Baby carriages, children's vehicles, except bicycles.....	126.1	138.0	130.2	127.4	115.5	99.6	82.7	72.9		
3949-	Sporting and athletic goods, n.e.c.....	1,538.8	1,111.6	982.0	1,018.1	930.0	836.4	655.5	519.9		
39491	Fishing tackle and equipment.....	167.7	160.6	141.7	131.7	120.4	111.1	96.9	75.8		
39492	Golf equipment.....	276.7	211.0	188.2	228.2	224.1	158.6	525.4	398.8		
39494	Playground, gymnasium, and gymnastic equipment.....	107.4	680.0	586.9	590.9	513.3	470.3				
39495	Other sporting and athletic goods.....	811.6									
39490	Sporting and athletic goods, n.e.c., n.s.k.....	175.4	60.0	(65.2)	(67.3)	(72.2)	96.4	33.2	45.4		

- Represents zero.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
INDUSTRY 3931.--MUSICAL INSTRUMENTS (Materials data are not available for this industry)						
INDUSTRY 3942.--DOLLS						
	Materials, components, parts, containers, and supplies, total	.....	(X)	90.7	(X)	66.9
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	(Z)	(Z)	(NA)	.2
331020	Alloy steel.....	..do.....	-	-		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	-	-	(NA)	-
331050	All other stainless steel mill shapes and forms.....	..do.....	-	-		
335001	Aluminum and aluminum-base alloy.....	Million lb....	-	-		
282130	Thermoplastic resins, including modified resins.....	..do.....	12.1	3.2	{	{
282140	Thermosetting resins.....	..do.....				
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)...	Mil. lin. yd..				
265001	Paperboard containers and boxes.....	.....	(X)	5.3	(X)	3.1
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....	1,000 units...	(X)	(Z)	(1)	(1)
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	33.6	(X)	24.8
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	26.4	(X)	22.5
INDUSTRY 3944.--GAMES, TOYS, AND CHILDREN'S VEHICLES						
	Materials, components, parts, containers, and supplies, total	.....	(X)	652.8	(X)	463.8
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	121.2	26.9	{	{
331020	Alloy steel.....	..do.....	21.8	4.9		
	Stainless steel:					
331033	Sheet and strip.....	..do.....	.3	1.7	{	{
331050	All other stainless steel mill shapes and forms.....	..do.....	(NA)	.3		
335001	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	5.2		
282130	Thermoplastic resins, including modified resins.....	..do.....	353.2	64.7	(1)	(1)
282140	Thermosetting resins.....	..do.....	4.9	2.1	(1)	(1)
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)...	Mil. lin. yd..	10.6	5.7	(1)	(1)
265001	Paperboard containers and boxes.....	.....	(X)	59.8	(1)	48.8
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors) <sup>3</sup> .....	1,000 units...	35,888.8	7.2	28,940.2	4.3
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	395.0	(X)	301.2
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	79.3	(X)	82.2
INDUSTRY 3949.--SPORTING AND ATHLETIC GOODS, N.E.C.						
	Materials, components, parts, containers, and supplies, total	.....	(X)	754.3	(X)	357.5
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	276.6	70.0	70.4	18.6
331020	Alloy steel.....	..do.....	45.6	19.3	9.8	4.9
	Stainless steel:					
331033	Sheet and strip.....	..do.....	1.0	1.3	{	{
331050	All other stainless steel mill shapes and forms.....	..do.....	5.3	7.9		
	Aluminum and aluminum-base alloy:					
335301	Sheet, plate and foil.....	Million lb....	6.5	2.7	4.1	2.0
335405	Extruded shapes, including extruded rod, bar, pipe, tube, etc.	..do.....	10.5	5.9	19.8	8.6
335008	All other aluminum shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....	..do.....	3.1	3.0	2.9	1.6
335105	Copper and copper-base alloy.....	..do.....	5.8	3.6	3.1	2.6
336100	Aluminum and aluminum-base alloy castings <sup>3</sup> .....	..do.....	4.8	4.7	2.7	2.3
282130	Thermoplastic resins, including modified resins.....	..do.....	141.8	30.6	39.3	13.0
282140	Thermosetting resins.....	..do.....	52.5	14.9	10.6	3.2
220123	Broadwoven fabrics (cotton, wool, manmade fiber fabrics, etc.)...	Mil. lin. yd..	(NA)	15.5	(NA)	8.2
311100	Leather, finished.....	Million lb....	13.6	16.5	9.6	11.9
265011	Paperboard containers and boxes.....	.....	(X)	23.1	(X)	9.9
362115	Fractional horsepower electric motors (under 1 hp.) (excluding timing motors) <sup>3</sup> .....	1,000 units...	233.7	4.0	283.3	4.8
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	395.1	(X)	189.1
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	136.2	(X)	74.7

- Represents zero. (X) Not applicable. (NA) Not available. (Z) Less than half of the unit of measurement shown (less than 0.1 when rounded).

<sup>1</sup>Included with material code 970099, "All other materials and components, ....," to avoid disclosing figures for individual companies.

<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

<sup>3</sup>Excludes quantities produced and consumed in the same establishment.



TABLE 7B. Fuels and Electric Energy Consumed: 1971 and 1967

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971		1967	
			Quantity	Cost	Quantity	Cost
				(million dollars)		(million dollars)
INDUSTRY 3931.--MUSICAL INSTRUMENTS						
	Purchased fuels and electric energy.....		(X)	3.6	(X)	(NA)
	Purchased fuels, total.....		(X)	1.2	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	8.5	.1	(NA)	(NA)
331212	Coke.....	..do.....	(S)	.1	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	31.8	.2	(NA)	(NA)
291141	Distillate.....	..do.....	19.3	.1	(NA)	(NA)
291151	Residual.....	..do.....	12.5	.1	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.3	.7	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	157.5	2.4	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.8	-	(NA)	(NA)
INDUSTRY 3942.--DOLLS						
	Purchased fuels and electric energy.....		(X)	1.3	(X)	(NA)
	Purchased fuels, total.....		(X)	.2	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	-	-	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	9.1	(Z)	(NA)	(NA)
291141	Distillate.....	..do.....	2.5	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	6.6	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.1	.1	(NA)	(NA)
960011	Other fuels.....		(X)	-	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.1	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	55.5	1.1	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.2	-	(NA)	(NA)
INDUSTRY 3944.--GAMES, TOYS, AND CHILDREN'S VEHICLES						
	Purchased fuels and electric energy.....		(X)	11.9	(X)	(NA)
	Purchased fuels, total.....		(X)	3.1	(X)	(NA)
121005	Coal.....	1,000 s. tons.....	9.9	(Z)	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	199.3	.9	(NA)	(NA)
291141	Distillate.....	..do.....	94.8	(Z)	(NA)	(NA)
291151	Residual.....	..do.....	104.6	(Z)	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	2.9	1.6	(NA)	(NA)
960011	Other fuels.....		(X)	(Z)	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	(Z)	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	611.0	8.8	(NA)	(NA)
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	(NA)	(NA)
	Total energy used for heat and power.....	Bil. kWh equiv....	2.1	-	(NA)	-
INDUSTRY 3949.--SPORTING AND ATHLETIC GOODS, N.E.C.						
	Purchased fuels and electric energy.....		(X)	8.2	(X)	6.3
	Purchased fuels, total.....		(X)	3.0	(X)	2.2
121005	Coal.....	1,000 s. tons.....	4.8	.1	(NA)	(NA)
331212	Coke.....	..do.....	-	-	(NA)	(NA)
	Fuel oil, total.....	1,000 bbl (42 gal)	112.5	.5	(NA)	(NA)
291141	Distillate.....	..do.....	35.3	.2	(NA)	(NA)
291151	Residual.....	..do.....	77.2	.4	(NA)	(NA)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.0	1.8	(NA)	(NA)
960011	Other fuels.....		(X)	.1	(X)	(NA)
975000	Fuels, n.s.k.....		(X)	.5	(X)	(NA)
960012	Purchased electric energy.....	Million kWh.....	435.8	5.2	304.0	4.1
	Quantity of electric energy generated less quantity sold....	..do.....	(S)	-	1.5	-
	Total energy used for heat and power.....	Bil. kWh equiv....	1.8	-	1.4	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (NA) Not available. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

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# Office Supplies, Costume Jewelry, and Notions

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# EXPLANATORY TEXT

## Office Supplies, Costume Jewelry, and Notions

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3951—Pens, Mechanical Pencils, and Parts\*
- 3952—Lead Pencils, Crayons, and Artists' Materials\*
- 3953—Marking Devices
- 3955—Carbon Paper and Inked Ribbons
- 3961—Costume Jewelry and Costume Novelties, Except Precious Metal\*
- 3962—Feathers, Plumes, and Artificial Trees and Flowers\*
- 3963—Buttons
- 3964—Needles, Pins, Hooks and Eyes, and Similar Notions\*

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3951.—PENS AND MECHANICAL PENCILS (Short Title)

This industry comprises establishments primarily engaged in manufacturing pens, pen points, fountain pens, ballpoint pens, refill cartridges, porous tipped felt-tip markers, and parts. For a detailed list of products of industry 3951, refer to table 6A, product codes 39510 01 to 39510 71.

The SIC number and title are the same as that used in the 1967 classification. However, there has been a slight change in

\* Note that the "short title" for this industry is used throughout the report.

definition such that broad-tipped markers, formerly in industry 3953 (product code 39530 43), are now included in this industry (product code 39510 43). The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old (1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC.

Value of shipments and other receipts of the Pens and Mechanical Pencils Industry in 1972 totaled \$310 million. This included shipments of pens and mechanical pencils (primary products) valued at \$283 million, shipments of other products (secondary products) valued at \$24 million, and miscellaneous receipts (mainly resales) of \$4 million.

Shipments of pens and mechanical pencils (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of lead pencils and art goods (\$6 million).

Shipments of pens and mechanical pencils (primary products) from establishments classified in industry 3951 in 1972 represented 91 percent (coverage ratio) of these products valued at \$312 million shipped by all industries. In 1967, the coverage ratio was 92 percent. Other industries shipping pens and mechanical pencils consisted mainly of industry 3952, Lead Pencils and Art Goods, at \$12 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3951, these establishments accounted for 3 percent of value of shipments.

## INDUSTRY 3952.—LEAD PENCILS AND ART GOODS (Short Title)

This industry comprises establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; and materials and equipment for artwork, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials.

Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811. For a detailed list of products of



industry 3952, refer to table 6A, product codes 39521 11 to 39522 19.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Lead Pencils and Art Goods Industry in 1972 totaled \$199 million. This included shipments of lead pencils and art goods (primary products) valued at \$154 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly resales) of \$13 million.

Shipments of lead pencils and art goods (primary products) in 1972 represented 83 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 85 percent. Secondary products shipped by this industry in 1972 consisted mainly of pens and mechanical pencils (\$12 million).

Shipments of lead pencils and art goods (primary products) from establishments classified in industry 3952 in 1972 represented 88 percent (coverage ratio) of these products valued at \$174 million shipped by all industries. In 1967, the coverage ratio was 93 percent. Other industries shipping lead pencils and art goods consisted mainly of industry 3951, Pens and Mechanical Pencils, at \$6 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3952, these establishments accounted for 4 percent of value of shipments.

#### INDUSTRY 3953.—MARKING DEVICES

This industry comprises establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking.

Establishments primarily engaged in manufacturing felt-tip markers are classified in industry 3951. For a detailed list of products of industry 3953, refer to table 6A, product codes 39530 13 to 39530 98.

The SIC number and title are the same as that used in the 1967 classification. However, there has been a slight change in definition, such that board-tipped markers, formerly in this industry (product code 39530 43), are now included in industry 3951 (product code 39510 43). The effect of the revisions on the data are summarized in table 1C, "Composition of New (1972) SIC Industries Based on Old

(1967) SIC." During the 1972 processing, each establishment was classified according to both the old and new SIC.

Value of shipments and other receipts of the Marking Devices Industry in 1972 totaled \$180 million. This included shipments of marking devices (primary products) valued at \$149 million, shipments of other products (secondary products) valued at \$16 million, and miscellaneous receipts (mainly resales) of \$15 million.

Shipments of marking devices (primary products) in 1972 represented 90 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was also 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of printing ink (\$3 million).

Shipments of marking devices (primary products) from establishments classified in industry 3953 in 1972 represented 91 percent (coverage ratio) of these products valued at \$163 million shipped by all industries. In 1967, the coverage ratio was also 91 percent. Other industries shipping marking devices consisted mainly of industry 3952; Lead Pencils and Art Goods (\$5 to \$10 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3953, these establishments accounted for 21 percent of value of shipments.

#### INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS

This industry comprises establishments primarily engaged in manufacturing carbon paper for business machines, salesbooks, etc.; spirit or gelatin process and other stencil paper; and inked or carbon ribbons for business machines. For a detailed list of products of industry 3955, refer to table 6A, product codes 39551 12 to 39552 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Carbon Paper and Inked Ribbons Industry in 1972 totaled \$234 million. This included shipments of carbon paper and inked ribbons (primary products) valued at \$195 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly resales) of \$18 million.

Shipments of carbon paper and inked ribbons (primary products) in 1972 represented 90 percent (specialization ratio)

of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent. Secondary products shipped by this industry in 1972 consisted mainly of office machines, n.e.c., over \$2 million.

Shipments of carbon paper and inked ribbons (primary products) from establishments classified in industry 3955 in 1972 represented 61 percent (coverage ratio) of these products valued at \$318 million shipped by all industries. In 1967, the coverage ratio was 79 percent. Other industries shipping carbon paper and inked ribbons consisted mainly of industry 3579; Office Machines, N.E.C., over \$2 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3955, these establishments accounted for 4 percent of value of shipments.

#### **INDUSTRY 3961.—COSTUME JEWELRY** (Short Title)

This industry comprises establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials except precious metal, precious or semiprecious stones, and rolled gold plate and gold-filled materials.

Establishments primarily engaged in manufacturing jewelry from precious metals, such as platinum and carat gold are classified in industry 3911. For a detailed list of products of industry 3961, refer to table 6A, product codes 39610 11 to 39610 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Costume Jewelry Industry in 1972 totaled \$472 million. This included shipments of costume jewelry (primary products) valued at \$396 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly resales) of \$44 million.

Shipments of costume jewelry (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent. Secondary products shipped by this industry in 1972 consisted mainly of jewelry, silverware, and plated ware (\$13 million).

Shipments of costume jewelry (primary products) from establishments classified in industry 3961 in 1972 represented 90 percent (coverage ratio) of these products valued at \$442

million shipped by all industries. In 1967, the coverage ratio was 92 percent. Other industries shipping costume jewelry consisted mainly of industry 3911, Jewelry, Precious Metal, (\$32 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3961, these establishments accounted for 16 percent of value of shipments.

#### **INDUSTRY 3962.—ARTIFICIAL FLOWERS** (Short Title)

This industry comprises establishments primarily engaged in manufacturing artificial trees (including Christmas trees), flowers, fruits, and foliage made from all materials except glass; and in producing fancy feathers, plumes, and articles made principally of feathers and plumes.

Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage from glass are classified in industry 3231. For a detailed list of products of industry 3962, refer to table 6A, product codes 39620 13 to 39620 21.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Artificial Flowers Industry in 1972 totaled \$109 million. This included shipments of artificial flowers (primary products) valued at \$93 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly resales) of \$8 million.

Shipments of artificial flowers (primary products) in 1972 represented 93 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent. Secondary products shipped by this industry in 1972 consisted mainly of drapery hardware and blinds and shades (over \$2 million).

Shipments of artificial flowers (primary products) from establishments classified in industry 3962 in 1972 represented 92 percent (coverage ratio) of these products valued at \$102 million shipped by all industries. In 1967, the coverage ratio was 85 percent. Other industries shipping artificial flowers consisted mainly of industry 3999, Manufacturing Industries, N.E.C., at \$7 million.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail



portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3962, these establishments accounted for 20 percent of value of shipments.

#### **INDUSTRY 3963.—BUTTONS**

This industry comprises establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds of all materials, except precious metal and precious or semiprecious stones. For a detailed list of products of industry 3963, refer to table 6A, product codes 39630 11 to 39630 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Buttons Industry in 1972 totaled \$94 million. This included shipments of buttons (primary products) valued at \$84 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts (mainly resales) of \$4 million.

Shipments of buttons (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent. Secondary products shipped by this industry in 1972 consisted mainly of needles, pins, and fasteners (\$5 to \$10 million).

Shipments of buttons (primary products) from establishments classified in industry 3963 in 1972 represented 81 percent (coverage ratio) of these products valued at \$103 million shipped by all industries. In 1967, the coverage ratio was 90 percent. Other industries shipping buttons consisted mainly of industry 3964, Needles, Pins, and Fasteners (\$7 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other

Government agencies and the remaining statistics constructed from industry averages. For industry 3963, these establishments accounted for 13 percent of value of shipments.

#### **INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners. For a detailed list of products of industry 3964, refer to table 6A, product codes 39641 21 to 39642 89.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Needles, Pins, and Fasteners Industry in 1972 totaled \$575 million. This included shipments of needles, pins, and fasteners (primary products) valued at \$510 million, shipments of other products (secondary products) valued at \$34 million, and miscellaneous receipts (mainly resales) of \$31 million.

Shipments of needles, pins, and fasteners (primary products) in 1972 represented 94 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 93 percent. Secondary products shipped by this industry in 1972 consisted mainly of manufactures, n.e.c., at \$9 million.

Shipments of needles, pins, and fasteners (primary products) from establishments classified in industry 3964 in 1972 represented 92 percent (coverage ratio) of these products valued at \$554 million shipped by all industries. In 1967, the coverage ratio was 89 percent. Other industries shipping needles, pins, and fasteners consisted mainly of industry 3465, Automotive Stampings (over \$2 million).

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3964, these establishments accounted for 6 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3951.--PENS AND MECHANICAL PENCILS															
1972 Census, new SIC..	117	64	10.9	81.9	8.5	16.4	52.6	213.7	104.9	310.5	7.6	(NA)	56.8	92	91
1972 Census, old SIC <sup>2</sup> .	111	59	10.2	77.0	8.0	15.4	49.8	200.2	95.6	287.6	7.0	(NA)	52.8	(NA)	(NA)
1971 ASM, old SIC.....	(NA)	(NA)	11.7	79.3	8.3	17.0	49.4	173.7	81.8	259.4	8.2	93.6	46.8	(NA)	(NA)
1970 ASM, old SIC.....	(NA)	(NA)	11.4	72.1	8.8	16.8	44.7	164.0	76.3	236.9	5.3	90.2	49.4	(NA)	(NA)
1969 ASM, old SIC.....	(NA)	(NA)	12.4	73.9	9.4	18.6	46.0	161.9	89.4	250.8	10.9	90.4	47.2	(NA)	(NA)
1968 ASM, old SIC.....	(NA)	(NA)	11.9	66.6	9.3	18.2	41.8	147.7	75.5	220.1	11.7	76.2	43.5	(NA)	(NA)
1967 Census, old SIC..	119	61	11.8	62.8	9.2	18.1	38.6	140.5	74.2	211.8	6.8	70.2	37.7	93	92
1966 ASM, old SIC.....	(NA)	(NA)	12.3	63.4	10.1	19.8	39.4	145.7	72.5	216.4	5.2	(NA)	35.9	(NA)	(NA)
1965 ASM, old SIC.....	(NA)	(NA)	12.2	58.7	9.4	18.3	35.9	131.6	70.3	200.7	6.4	(NA)	31.2	(NA)	(NA)
1964 ASM, old SIC.....	(NA)	(NA)	11.3	54.6	8.6	17.7	33.4	115.9	68.2	184.6	4.4	71.4	31.5	(NA)	(NA)
1963 Census, old SIC..	139	67	11.6	55.0	9.1	17.9	33.9	119.1	66.6	185.5	4.1	69.3	29.5	90	93
1962 ASM, old SIC.....	(NA)	(NA)	10.5	48.6	8.1	15.7	29.0	109.8	70.2	180.9	6.1	63.6	29.3	(NA)	(NA)
1961 ASM, old SIC.....	(NA)	(NA)	10.2	44.4	7.8	15.2	27.1	96.7	70.0	169.6	5.5	(NA)	27.0	(NA)	(NA)
1960 ASM, old SIC.....	(NA)	(NA)	11.1	46.1	8.7	17.4	29.0	96.0	70.8	168.5	3.8	(NA)	27.4	(NA)	(NA)
1959 ASM, old SIC.....	(NA)	(NA)	10.9	44.2	8.6	16.7	27.6	92.9	60.1	152.8	2.9	(NA)	26.3	(NA)	(NA)
1958 Census, old SIC..	147	66	11.2	45.9	8.5	16.2	27.9	90.2	58.0	150.3	3.8	(NA)	26.2	93	93
INDUSTRY 3952.--LEAD PENCILS AND ART GOODS															
1972 Census.....	144	49	7.1	50.0	5.1	10.4	28.6	108.2	90.8	198.8	3.9	(NA)	43.9	83	88
1971 ASM.....	(NA)	(NA)	6.9	45.6	4.8	9.0	25.7	96.8	84.6	180.3	4.3	93.6	42.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	7.6	44.6	5.4	10.2	27.0	89.1	85.7	174.3	*4.1	90.2	43.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	8.0	49.1	6.2	12.3	29.7	93.6	86.4	177.5	2.3	49.8	40.6	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	7.8	45.2	5.9	11.7	26.2	83.0	82.2	165.6	5.3	48.1	36.3	(NA)	(NA)
1967 Census.....	131	59	7.9	42.2	6.0	12.0	24.7	79.8	80.5	158.9	4.6	43.7	36.4	85	93
1966 ASM.....	(NA)	(NA)	8.3	40.3	6.4	12.6	24.7	81.2	79.4	159.6	3.2	(NA)	33.0	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	7.8	37.3	6.0	11.8	22.9	75.5	69.8	145.8	*2.4	(NA)	28.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	7.4	35.7	5.6	10.5	20.2	76.9	62.5	135.5	1.9	44.3	30.4	(NA)	(NA)
1963 Census.....	144	57	6.9	31.9	5.0	9.8	18.4	64.7	56.8	121.6	1.6	42.7	26.4	87	90
1962 ASM.....	(NA)	(NA)	6.0	26.5	4.5	9.5	16.1	57.2	52.4	107.6	1.8	40.6	25.0	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.3	26.0	4.8	9.6	16.0	54.2	48.8	102.8	1.3	(NA)	21.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.4	26.6	4.8	9.8	15.7	54.4	54.6	108.8	1.7	(NA)	22.9	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.1	27.3	5.2	10.1	15.8	53.9	53.5	107.0	*1.0	(NA)	22.4	(NA)	(NA)
1958 Census.....	146	54	6.7	26.2	4.7	9.4	14.7	47.9	49.1	98.5	2.0	(NA)	22.0	88	92
INDUSTRY 3953.--MARKING DEVICES															
1972 Census, new SIC..	621	99	8.1	63.2	5.5	10.7	36.0	121.5	60.1	180.0	2.6	(NA)	21.1	90	91
1972 Census, old SIC <sup>2</sup> .	628	105	8.8	68.3	6.0	11.6	38.8	135.6	69.7	203.7	3.2	(NA)	25.2	(NA)	(NA)
1971 ASM, old SIC.....	(NA)	(NA)	9.8	70.1	6.8	13.6	40.5	125.1	67.0	192.4	3.6	51.8	22.8	(NA)	(NA)
1970 ASM, old SIC.....	(NA)	(NA)	10.5	70.4	7.1	14.3	41.0	127.8	63.6	190.0	*2.4	51.7	22.8	(NA)	(NA)
1969 ASM, old SIC.....	(NA)	(NA)	9.3	64.2	6.5	12.4	36.1	112.0	59.9	170.3	*3.3	48.6	22.0	(NA)	(NA)
1968 ASM, old SIC.....	(NA)	(NA)	8.9	58.3	6.1	11.9	31.4	98.0	52.6	151.6	3.6	46.3	18.1	(NA)	(NA)
1967 Census, old SIC..	602	109	8.5	53.3	5.8	11.1	29.2	98.1	50.4	146.3	6.4	45.8	17.8	90	91
1966 ASM, old SIC.....	(NA)	(NA)	8.7	55.1	5.6	10.9	28.8	101.5	63.3	162.2	*5.8	(NA)	19.1	(NA)	(NA)
1965 ASM, old SIC.....	(NA)	(NA)	7.7	45.8	5.4	11.0	26.1	90.8	45.6	135.6	*3.0	(NA)	15.0	(NA)	(NA)
1964 ASM, old SIC.....	(NA)	(NA)	8.0	44.0	5.0	11.8	26.2	83.7	45.1	128.1	*3.9	38.3	13.4	(NA)	(NA)
1963 Census, old SIC..	616	90	7.6	41.4	5.3	10.7	24.9	85.6	41.7	126.8	2.2	34.3	12.1	84	90
1962 ASM, old SIC.....	(NA)	(NA)	6.8	34.6	4.5	9.4	20.5	58.8	31.7	89.9	2.3	31.4	9.0	(NA)	(NA)
1961 ASM, old SIC.....	(NA)	(NA)	6.0	29.6	4.1	8.6	18.1	49.6	24.6	73.9	1.5	(NA)	6.9	(NA)	(NA)
1960 ASM, old SIC.....	(NA)	(NA)	5.8	30.2	4.0	8.2	18.5	49.4	25.2	74.4	*1.3	(NA)	6.5	(NA)	(NA)
1959 ASM, old SIC.....	(NA)	(NA)	5.7	28.9	4.0	7.9	18.1	48.5	23.4	72.0	*1.3	(NA)	6.3	(NA)	(NA)
1958 Census, old SIC..	525	70	5.4	24.8	3.9	7.4	15.6	39.9	20.0	59.9	1.4	(NA)	5.9	96	86
INDUSTRY 3955.--CARBON PAPER AND INKED RIBBONS															
1972 Census.....	83	51	5.6	47.8	3.8	7.6	27.1	110.4	122.4	233.6	5.5	(NA)	36.5	90	61
1971 ASM.....	(NA)	(NA)	6.5	47.8	4.5	8.7	27.3	118.6	123.0	241.3	4.6	52.6	35.6	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	6.3	44.3	4.4	8.7	25.1	107.5	119.3	228.1	*4.0	49.3	36.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	6.4	45.8	4.6	9.7	26.8	102.5	123.6	223.8	3.5	49.7	37.9	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	6.0	41.8	4.3	8.9	24.9	89.8	117.8	208.3	*5.0	47.5	32.7	(NA)	(NA)
1967 Census.....	107	63	6.5	41.8	4.4	9.0	23.8	93.8	113.2	206.8	5.3	44.5	30.9	94	79
1966 ASM.....	(NA)	(NA)	5.8	36.5	3.8	7.7	20.5	90.0	109.9	196.5	4.0	(NA)	32.3	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.8	35.0	4.0	8.0	20.2	83.7	95.4	177.6	2.4	(NA)	26.5	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.6	33.6	3.9	8.1	18.7	77.9	89.6	166.5	*3.7	35.1	26.2	(NA)	(NA)
1963 Census.....	102	52	5.5	31.5	3.8	7.7	17.6	68.4	87.0	155.5	2.3	31.9	23.3	95	83
1962 ASM.....	(NA)	(NA)	6.5	34.5	4.4	8.8	18.7	73.1	94.0	165.9	*4.2	30.1	26.7	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	6.4	32.8	4.3	8.2	17.3	70.4	89.0	158.2	2.2	(NA)	25.4	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.5	33.3	4.4	8.4	17.0	69.3	79.9	148.0	1.9	(NA)	24.5	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	6.1	30.1	4.1	8.1	16.0	63.8	71.6	136.4	1.7	(NA)	22.4	(NA)	(NA)
1958 Census.....	103	61	5.8	27.6	3.9	7.9	15.1	59.0	68.0	126.0	2.7	(NA)	21.9	91	89

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3961.--COSTUME JEWELRY															
1972 Census.....	766	208	21.4	132.1	17.6	32.1	82.2	275.7	198.2	471.6	6.7	(NA)	67.8	93	90
1971 ASM.....	(NA)	(NA)	21.0	128.4	17.0	31.7	79.6	288.5	182.2	473.3	9.1	84.5	62.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	23.4	134.5	19.2	36.9	86.7	268.9	183.4	451.5	9.0	81.1	62.7	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	24.7	124.6	21.1	40.7	84.4	257.9	186.7	445.4	*9.2	78.5	61.1	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	22.5	114.1	19.3	37.7	77.5	236.0	174.2	402.9	*3.7	73.9	57.7	(NA)	(NA)
1967 Census.....	764	206	22.4	106.9	19.4	36.7	73.8	220.5	160.5	376.5	4.4	69.8	48.5	95	92
1966 ASM.....	(NA)	(NA)	21.6	94.4	18.5	35.8	65.8	186.7	153.4	335.0	5.8	(NA)	37.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	21.3	89.8	17.6	33.8	60.5	173.8	140.8	313.0	*3.9	(NA)	32.7	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	21.6	88.1	18.2	35.3	60.9	158.1	137.6	294.3	1.7	45.9	34.7	(NA)	(NA)
1963 Census.....	912	204	21.7	85.3	18.2	34.5	59.8	151.0	132.4	280.5	3.8	44.4	34.2	95	95
1962 ASM.....	(NA)	(NA)	22.3	81.1	18.5	34.7	52.6	136.2	119.3	253.2	1.4	42.1	25.4	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	21.9	79.7	18.2	34.7	51.5	132.2	124.1	253.2	1.5	(NA)	26.8	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	22.0	78.3	18.6	35.5	52.1	132.0	115.8	245.2	*2.2	(NA)	25.7	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	24.3	80.7	20.7	38.2	55.8	134.2	111.8	245.1	*3.1	(NA)	29.8	(NA)	(NA)
1958 Census.....	1,051	255	25.3	83.2	21.3	40.0	58.3	138.0	116.0	253.8	5.8	(NA)	35.2	95	96
INDUSTRY 3962.--ARTIFICIAL FLOWERS															
1972 Census.....	263	53	4.8	26.6	4.2	7.3	18.0	57.5	52.0	108.7	3.3	(NA)	21.3	93	92
1971 ASM.....	(NA)	(NA)	3.4	18.8	3.0	5.4	12.7	44.2	39.5	83.4	1.9	*16.2	13.8	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	3.8	19.9	3.3	6.2	13.0	44.1	37.9	82.8	*1.8	*15.9	12.1	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	4.9	21.6	4.4	7.1	15.6	46.1	46.3	93.0	*2.1	*13.1	15.3	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	4.9	20.5	4.4	7.3	14.9	43.5	46.2	88.7	*1.0	*12.8	13.6	(NA)	(NA)
1967 Census.....	321	79	5.2	20.2	4.6	7.9	14.8	43.3	41.4	84.7	.7	14.5	11.2	97	85
1966 ASM.....	(NA)	(NA)	3.8	15.1	3.3	5.7	10.7	36.7	38.4	73.5	*.8	(NA)	10.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	4.2	15.5	3.6	6.2	11.1	35.7	40.4	74.0	*.6	(NA)	11.8	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	4.8	17.0	4.1	7.6	12.6	33.0	32.6	65.6	*.7	9.7	9.9	(NA)	(NA)
1963 Census.....	384	70	5.0	16.3	4.3	7.6	12.1	29.2	30.6	60.4	.7	8.7	9.6	97	87
1962 ASM.....	(NA)	(NA)	5.2	15.6	4.4	7.9	10.6	28.2	31.6	59.8	(Z)	7.2	8.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.9	16.9	5.2	9.5	12.0	29.0	34.4	63.5	(Z)	(NA)	8.1	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	6.6	19.6	5.8	10.5	13.9	32.0	33.3	65.3	*.6	(NA)	9.6	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	7.0	19.7	6.0	11.0	14.4	34.7	33.3	67.4	*.4	(NA)	9.0	(NA)	(NA)
1958 Census.....	431	101	6.8	19.0	5.9	11.0	14.4	34.6	30.5	65.0	.9	(NA)	7.6	98	98
INDUSTRY 3963.--BUTTONS															
1972 Census.....	186	51	4.0	26.7	3.2	6.0	17.6	51.8	42.8	93.7	2.3	(NA)	12.6	94	81
1971 ASM.....	(NA)	(NA)	4.5	29.0	3.5	6.5	18.2	56.8	49.6	106.1	2.5	27.5	14.1	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	4.9	27.8	3.9	7.6	18.0	51.1	43.5	95.1	1.6	26.0	13.6	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	4.6	28.5	3.8	7.3	18.8	53.7	44.9	96.8	2.1	24.3	13.5	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	5.1	28.4	4.2	8.3	19.1	53.6	44.5	95.6	*1.3	24.3	13.4	(NA)	(NA)
1967 Census.....	234	62	4.8	23.7	4.1	8.0	16.8	46.1	35.5	80.8	1.2	24.8	12.2	97	90
1966 ASM.....	(NA)	(NA)	5.3	24.1	4.5	8.2	16.3	43.2	29.4	72.9	*1.2	(NA)	11.5	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	5.3	22.2	4.6	8.3	16.2	41.4	29.4	70.6	*1.4	(NA)	12.4	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	5.2	22.1	4.3	8.6	15.6	50.8	35.4	86.0	*1.0	24.9	11.7	(NA)	(NA)
1963 Census.....	290	69	5.6	23.0	4.7	9.1	16.5	43.8	37.9	81.8	1.0	25.2	11.8	96	87
1962 ASM.....	(NA)	(NA)	5.4	20.5	4.7	9.5	15.8	38.5	33.5	73.9	1.8	24.1	10.6	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	5.6	20.1	4.9	9.8	15.1	37.5	32.1	71.6	.7	(NA)	10.9	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	5.6	20.4	4.8	9.6	15.3	37.5	31.6	70.8	.8	(NA)	11.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	6.4	21.1	5.5	10.5	16.1	41.5	32.7	74.5	*1.7	(NA)	10.9	(NA)	(NA)
1958 Census.....	356	87	6.5	21.5	5.5	10.4	15.8	38.0	30.6	68.6	1.4	(NA)	11.3	98	88
INDUSTRY 3964.--NEEDLES, PINS, AND FASTENERS															
1972 Census.....	267	125	20.2	137.7	16.1	32.0	94.6	334.5	240.1	574.7	21.2	(NA)	94.0	94	92
1971 ASM.....	(NA)	(NA)	21.3	141.6	17.0	33.5	94.3	330.1	236.4	564.9	28.7	232.5	100.5	(NA)	(NA)
1970 ASM.....	(NA)	(NA)	21.2	131.9	16.9	33.7	88.5	309.3	213.3	515.6	20.4	*197.6	96.9	(NA)	(NA)
1969 ASM.....	(NA)	(NA)	20.6	117.5	16.9	34.1	82.5	249.5	196.1	439.0	15.1	137.0	77.0	(NA)	(NA)
1968 ASM.....	(NA)	(NA)	19.4	107.2	16.0	32.7	75.9	233.3	179.8	414.3	12.3	122.5	59.9	(NA)	(NA)
1967 Census.....	289	138	19.2	101.1	15.9	31.8	70.5	218.1	168.5	385.3	15.3	115.3	61.4	93	89
1966 ASM.....	(NA)	(NA)	22.4	108.5	18.5	36.1	76.6	233.5	182.3	409.3	12.6	(NA)	68.8	(NA)	(NA)
1965 ASM.....	(NA)	(NA)	22.0	103.8	18.1	35.6	73.7	231.6	172.8	398.0	8.4	(NA)	65.0	(NA)	(NA)
1964 ASM.....	(NA)	(NA)	19.7	96.1	16.1	34.5	68.7	209.3	153.5	356.7	10.2	86.3	58.4	(NA)	(NA)
1963 Census.....	343	149	20.3	89.4	16.7	32.6	64.1	190.9	146.1	337.3	7.4	78.6	51.8	91	92
1962 ASM.....	(NA)	(NA)	20.7	87.0	17.1	31.9	62.8	188.0	135.7	319.0	7.2	72.2	50.3	(NA)	(NA)
1961 ASM.....	(NA)	(NA)	18.4	78.2	15.0	28.6	55.0	161.0	122.1	283.5	*6.1	(NA)	44.6	(NA)	(NA)
1960 ASM.....	(NA)	(NA)	18.3	75.9	14.8	28.2	53.1	154.2	105.1	255.1	7.2	(NA)	45.0	(NA)	(NA)
1959 ASM.....	(NA)	(NA)	18.7	76.1	15.2	29.1	52.9	147.0	106.8	251.5	*4.5	(NA)	41.3	(NA)	(NA)
1958 Census.....	367	128	17.8	69.9	14.3	26.7	48.0	127.7	93.6	220.5	4.3	(NA)	37.4	93	89

See footnotes on next page.



TABLE 1A. General Statistics: 1958 to 1972—Continued

(Footnotes for table 1A)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3951	Industry 3952	Industry 3953	Industry 3955	Industry 3961	Industry 3962	Industry 3963	Industry 3964
1972.....	112	136	584	70	764	123	180	244
1967.....	113	123	561	87	763	319	227	262
1963.....	122	140	581	91	910	367	282	314

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

<sup>2</sup>The 1972 data on the new SIC basis are not directly comparable to 1972 and previous years' data on the old SIC basis because several establishments previously classified in industry 3953 are now included in industry 3951 (see table 1C). For industry 3951, the degree of change (based on total employment) between the new and old SIC's for 1972 is approximately 6 percent. For industry 3953, the degree of change (based on total employment) between the new and old SIC's for 1972 is approximately 8 percent.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment (percent)	Annual men-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3951.--PENS AND MECHANICAL PENCILS											
1972 Census, new SIC <sup>1</sup> ..	7,513	(NA)	78	1,929	3.20	.33	.60	(NA)	19,606	38	13.03
1972 Census, old SIC...	7,549	(NA)	78	1,925	3.23	.33	.60	(NA)	19,628	38	13.00
1971 ASM, old SIC.....	6,778	8,000	71	2,048	2.91	.32	.62	.36	14,846	46	10.22
1970 ASM, old SIC.....	6,325	7,912	77	1,909	2.66	.32	.63	.38	14,386	44	9.76
1968 ASM, old SIC.....	5,960	7,290	76	1,979	2.47	.36	.65	.36	13,056	46	8.70
1968 ASM, old SIC.....	5,597	6,400	78	1,957	2.30	.34	.65	.35	12,412	45	8.12
1967 Census, old SIC...	5,318	5,950	78	1,953	2.14	.35	.65	.33	11,891	45	7.78
1966 ASM, old SIC.....	5,147	(NA)	82	1,951	1.99	.33	.63	(NA)	11,826	44	7.37
1965 ASM, old SIC.....	4,814	(NA)	77	1,950	1.97	.35	.64	(NA)	10,784	45	7.19
1964 ASM, old SIC.....	4,845	6,320	77	2,047	1.89	.37	.67	.39	10,277	47	6.56
1963 Census, old SIC...	4,754	5,970	78	1,979	1.89	.36	.66	.37	10,298	46	6.64
1962 ASM, old SIC.....	4,627	6,060	77	1,945	1.85	.39	.66	.35	10,453	44	6.99
1961 ASM, old SIC.....	4,367	(NA)	76	1,956	1.78	.41	.67	(NA)	9,504	46	6.35
1960 ASM, old SIC.....	4,167	(NA)	79	1,993	1.67	.42	.69	(NA)	8,681	48	5.52
1959 ASM, old SIC.....	4,063	(NA)	79	1,952	1.65	.39	.68	(NA)	8,547	48	5.56
1958 Census, old SIC...	4,102	(NA)	76	1,906	1.72	.39	.69	(NA)	8,068	51	5.56
INDUSTRY 3952.--LEAD PENCILS AND ART GOODS											
1972 Census.....	7,042	(NA)	72	2,040	2.75	.46	.71	(NA)	15,240	46	10.40
1971 ASM.....	6,609	13,566	70	1,875	2.86	.47	.72	.27	14,029	47	10.76
1970 ASM.....	5,868	11,869	71	1,889	2.65	.49	.75	.27	11,724	50	8.74
1969 ASM.....	6,138	6,230	78	1,984	2.42	.49	.76	.28	11,700	53	7.61
1968 ASM.....	5,795	6,170	76	1,983	2.24	.50	.77	.29	10,641	55	7.09
1967 Census.....	5,315	5,530	76	1,987	2.06	.51	.77	.28	10,041	53	6.65
1966 ASM.....	4,873	(NA)	78	1,959	1.96	.50	.75	(NA)	9,814	50	6.46
1965 ASM.....	4,806	(NA)	77	1,973	1.94	.48	.73	(NA)	9,734	49	6.40
1964 ASM.....	4,847	5,990	76	1,893	1.92	.46	.72	.33	10,447	46	7.30
1963 Census.....	4,651	6,190	73	1,958	1.87	.47	.73	.35	9,425	49	6.58
1962 ASM.....	4,439	6,770	76	2,087	1.70	.49	.73	.38	9,592	46	6.03
1961 ASM.....	4,139	(NA)	76	2,014	1.66	.47	.73	(NA)	8,643	48	5.64
1960 ASM.....	4,169	(NA)	76	2,034	1.60	.50	.75	(NA)	8,524	49	5.55
1959 ASM.....	3,848	(NA)	73	1,941	1.57	.50	.76	(NA)	7,589	51	5.34
1958 Census.....	3,916	(NA)	70	1,988	1.57	.50	.76	(NA)	7,164	55	5.12

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3953.--MARKING DEVICES											
1972 Census, new SIC <sup>1</sup> ..	7,802	(NA)	68	1,945	3.36	.33	.68	(NA)	15,000	52	11.36
1972 Census, old SIC...	7,750	(NA)	68	1,933	3.34	.34	.68	(NA)	15,409	50	11.69
1971 ASM, old SIC.....	7,153	5,286	69	2,000	2.98	.35	.71	.27	12,765	56	9.20
1970 ASM, old SIC.....	6,705	4,924	68	2,014	2.87	.34	.71	.27	12,171	55	8.94
1969 ASM, old SIC.....	6,903	5,230	70	1,908	2.91	.35	.73	.29	12,043	57	9.03
1968 ASM, old SIC.....	6,551	5,200	69	1,951	2.64	.35	.73	.31	11,011	60	8.24
1967 Census, old SIC...	6,262	5,390	69	1,893	2.64	.34	.71	.31	11,533	54	8.87
1966 ASM, old SIC.....	6,318	(NA)	64	1,951	2.63	.39	.73	(NA)	11,667	54	9.31
1965 ASM, old SIC.....	5,978	(NA)	70	2,031	2.39	.34	.67	(NA)	11,858	50	8.29
1964 ASM, old SIC.....	5,485	4,790	63	2,333	2.23	.35	.70	.30	10,432	53	7.12
1963 Census, old SIC...	5,425	4,510	69	2,027	2.34	.33	.65	.27	11,223	48	8.03
1962 ASM, old SIC.....	5,058	4,620	66	2,073	2.17	.35	.74	.35	8,583	59	6.23
1961 ASM, old SIC.....	4,914	(NA)	69	2,071	2.11	.33	.73	(NA)	8,227	60	5.78
1960 ASM, old SIC.....	5,206	(NA)	68	2,076	2.25	.34	.74	(NA)	8,523	61	6.01
1959 ASM, old SIC.....	5,073	(NA)	69	2,006	2.29	.32	.73	(NA)	8,505	60	6.12
1958 Census, old SIC...	4,548	(NA)	71	1,899	2.12	.33	.75	(NA)	7,332	62	5.43
INDUSTRY 3955.--CARBON PAPER AND INKED RIBBONS											
1972 Census.....	8,536	(NA)	68	2,000	3.55	.52	.73	(NA)	19,714	43	14.53
1971 ASM.....	7,354	8,092	69	1,933	3.14	.51	.71	.22	18,246	40	13.63
1970 ASM.....	7,032	7,825	70	1,977	2.89	.52	.72	.22	17,063	41	12.36
1969 ASM.....	7,156	7,770	72	2,109	2.76	.55	.76	.22	16,016	45	10.57
1968 ASM.....	6,967	7,920	72	2,070	2.80	.57	.77	.23	14,967	47	10.09
1967 Census.....	6,462	6,850	68	2,051	2.64	.55	.75	.22	14,494	45	10.41
1966 ASM.....	6,276	(NA)	65	2,046	2.66	.56	.76	(NA)	15,479	41	11.68
1965 ASM.....	6,008	(NA)	68	2,025	2.52	.54	.73	(NA)	14,360	42	10.43
1964 ASM.....	6,007	6,270	70	2,053	2.33	.54	.74	.21	13,948	43	9.68
1963 Census.....	5,683	5,800	69	2,009	2.30	.56	.76	.21	12,340	46	8.91
1962 ASM.....	5,341	4,630	68	1,999	2.11	.57	.77	.18	11,296	47	8.28
1961 ASM.....	5,101	(NA)	66	1,930	2.10	.56	.77	(NA)	10,967	47	8.55
1960 ASM.....	5,098	(NA)	67	1,909	2.04	.54	.77	(NA)	10,615	48	8.30
1959 ASM.....	4,910	(NA)	66	2,008	1.96	.52	.75	(NA)	10,397	47	7.84
1958 Census.....	4,746	(NA)	67	2,003	1.92	.54	.76	(NA)	10,133	47	7.51
INDUSTRY 3961.--COSTUME JEWELRY											
1972 Census.....	6,172	(NA)	82	1,823	2.56	.42	.70	(NA)	12,883	48	8.59
1971 ASM.....	6,114	4,024	81	1,865	2.51	.39	.66	.18	13,738	45	9.10
1970 ASM.....	5,748	3,466	82	1,922	2.35	.41	.70	.18	11,491	50	7.29
1969 ASM.....	5,045	3,180	85	1,929	2.07	.42	.70	.18	10,441	48	6.34
1968 ASM.....	5,071	3,280	86	1,953	2.06	.43	.72	.18	10,489	48	6.26
1967 Census.....	4,766	3,120	86	1,893	2.01	.43	.71	.19	9,833	48	6.02
1966 ASM.....	4,372	(NA)	86	1,938	1.84	.46	.74	(NA)	8,650	51	5.22
1965 ASM.....	4,218	(NA)	83	1,919	1.79	.45	.74	(NA)	8,164	52	5.15
1964 ASM.....	4,068	2,130	84	1,938	1.72	.47	.77	.16	7,304	56	4.48
1963 Census.....	3,938	2,050	84	1,895	1.73	.47	.78	.16	6,973	56	4.37
1962 ASM.....	3,632	1,890	83	1,872	1.52	.47	.79	.17	6,097	60	3.93
1961 ASM.....	3,638	(NA)	83	1,909	1.48	.49	.80	(NA)	6,035	60	3.81
1960 ASM.....	3,551	(NA)	85	1,905	1.47	.47	.79	(NA)	5,991	59	3.72
1959 ASM.....	3,322	(NA)	85	1,844	1.46	.46	.79	(NA)	5,527	60	3.51
1958 Census.....	3,290	(NA)	84	1,878	1.46	.46	.78	(NA)	5,459	60	3.45
INDUSTRY 3962.--ARTIFICIAL FLOWERS											
1972 Census.....	5,563	(NA)	88	1,738	2.47	.48	.72	(NA)	11,980	46	7.88
1971 ASM.....	5,529	4,765	88	1,800	2.35	.47	.70	.19	13,000	43	8.19
1970 ASM.....	5,237	4,184	87	1,879	2.10	.46	.70	.19	11,605	45	7.11
1969 ASM.....	4,408	2,670	90	1,614	2.20	.50	.73	.14	9,408	47	6.49
1968 ASM.....	4,184	2,610	90	1,659	2.04	.52	.75	.14	8,878	47	5.96
1967 Census.....	3,884	2,790	88	1,720	1.87	.49	.73	.17	8,331	47	5.49
1966 ASM.....	3,938	(NA)	87	1,700	1.89	.52	.73	(NA)	9,573	41	6.49
1965 ASM.....	3,694	(NA)	86	1,739	1.78	.55	.75	(NA)	8,518	43	5.72
1964 ASM.....	3,569	2,020	86	1,849	1.66	.50	.76	.15	6,946	51	4.37
1963 Census.....	3,295	1,740	86	1,784	1.59	.51	.78	.14	5,888	56	3.84
1962 ASM.....	2,989	1,380	84	1,788	1.35	.53	.79	.12	5,387	55	3.58
1961 ASM.....	2,871	(NA)	88	1,842	1.26	.54	.81	(NA)	4,916	58	3.04
1960 ASM.....	2,959	(NA)	88	1,796	1.33	.51	.81	(NA)	4,837	61	3.06
1959 ASM.....	2,836	(NA)	86	1,841	1.31	.49	.79	(NA)	4,990	57	3.16
1958 Census.....	2,810	(NA)	88	1,861	1.30	.47	.76	(NA)	5,118	55	3.14

See footnotes at end of table.

TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production worker as percent of total employment (percent)	Annual man-hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of shipments (dollars)	Cost of materials and payrolls per dollar shipments (dollars)	Assets per dollar of shipments (dollars)	Value added per employee (dollars)	Payrolls as percent of value added (percent)	Value added per man-hour of production worker (dollars)
INDUSTRY 3963.--BUTTONS											
1972 Census.....	6,675	(NA)	80	1,875	2.93	.46	.74	(NA)	12,950	51	9.42
1971 ASM.....	6,444	6,111	78	1,857	2.80	.47	.74	.26	12,622	51	8.74
1970 ASM.....	5,673	5,306	80	1,949	2.37	.46	.75	.27	10,429	54	6.72
1969 ASM.....	6,196	5,280	83	1,921	2.58	.46	.76	.25	11,674	53	7.36
1968 ASM.....	5,569	4,760	82	1,976	2.30	.47	.76	.25	10,510	53	6.46
1967 Census.....	4,916	5,170	86	1,933	2.09	.44	.73	.31	9,540	52	5.75
1966 ASM.....	4,540	(NA)	85	1,827	1.97	.40	.73	(NA)	8,137	56	5.25
1965 ASM.....	4,151	(NA)	86	1,807	1.95	.42	.73	(NA)	7,759	53	5.01
1964 ASM.....	4,289	4,790	83	2,004	1.82	.41	.67	.29	9,840	44	5.90
1963 Census.....	4,112	4,500	84	1,932	1.81	.46	.74	.31	7,814	53	4.79
1962 ASM.....	3,800	4,460	87	2,032	1.66	.45	.73	.33	7,120	53	4.05
1961 ASM.....	3,558	(NA)	86	2,022	1.54	.45	.73	(NA)	6,646	54	3.81
1960 ASM.....	3,632	(NA)	86	1,989	1.60	.45	.74	(NA)	6,677	54	3.93
1959 ASM.....	3,275	(NA)	86	1,895	1.54	.44	.72	(NA)	6,443	51	3.96
1958 Census.....	3,331	(NA)	85	1,894	1.52	.45	.76	(NA)	5,875	57	3.64
INDUSTRY 3964.--NEEDLES, PINS, AND FASTENERS											
1972 Census.....	6,816	(NA)	80	2,050	2.90	.42	.67	(NA)	16,560	41	10.45
1971 ASM.....	6,648	10,915	80	1,971	2.82	.42	.67	.41	15,498	43	9.85
1970 ASM.....	6,222	9,320	80	1,994	2.63	.41	.67	.38	14,590	43	9.18
1969 ASM.....	5,704	6,650	82	2,018	2.42	.45	.71	.31	12,112	47	7.32
1968 ASM.....	5,526	6,310	82	2,044	2.32	.43	.69	.30	12,026	46	7.13
1967 Census.....	5,269	6,010	83	2,004	2.22	.44	.70	.30	11,367	46	6.86
1966 ASM.....	4,841	(NA)	82	1,951	2.12	.45	.71	(NA)	10,415	46	6.47
1965 ASM.....	4,723	(NA)	82	1,967	2.07	.43	.70	(NA)	10,539	45	6.51
1964 ASM.....	4,874	4,380	81	2,151	1.99	.43	.70	.24	10,616	46	6.06
1963 Census.....	4,412	3,870	82	1,958	1.96	.43	.70	.23	9,416	47	5.85
1962 ASM.....	4,202	3,490	83	1,863	1.97	.43	.70	.23	9,082	46	5.90
1961 ASM.....	4,238	(NA)	82	1,899	1.92	.43	.71	(NA)	8,731	49	5.64
1960 ASM.....	4,147	(NA)	81	1,899	1.89	.41	.71	(NA)	8,428	49	5.48
1959 ASM.....	4,074	(NA)	81	1,920	1.82	.42	.73	(NA)	7,873	52	5.05
1958 Census.....	3,935	(NA)	80	1,875	1.79	.42	.74	(NA)	7,190	55	4.78

(NA) Not available.

<sup>1</sup>The 1972 data on the new SIC basis are not directly comparable to 1972 and previous years' data on the old SIC basis because several establishments previously classified in industry 3953 are now included in industry 3951 (see table 1C).

1972 CENSUS OF MANUFACTURES

1972 CENSUS OF MANUFACTURES

TABLE 1C. Composition of New (1972) SIC Industries Based on Old (1967) SIC

The data shown under "Composition of new industry" are 1972 totals, as follows: The "new industry" line shows data for the industry as now composed; the "old industry" lines show where these data would have been included if the industry definitions had not been changed. Stated otherwise, it shows where the new industry came from. The data shown under "Totals for

industries on old SIC" are 1972 totals for the industries before revision and reflect amounts classified in the specified new industry as well as in other new industries. The relationship between the data in the first five columns and the last five columns shows the portion of the old SIC industry that was classified into the specified, newly defined industry.

Industry	Composition of new industry					Totals for industries on old SIC				
	Establishments		All employees	Value added by manufacture	Value of shipments	Establishments		All employees	Value added by manufacture	Value of shipments
	Total	With 20 employees or more				Total	With 20 employees or more			
	(number)	(number)				(number)	(number)			
New industry 3951.--Pens and Mechanical Pencils.....	117	64	10.9	213.7	310.5	(X)	(X)	(X)	(X)	(X)
Old industry 3951.--Pens and Mechanical Pencils.....	111	59	(D)	(D)	(D)	111	59	10.2	200.2	287.6
Old industry 3953.--Marking Devices.....	6	5	(D)	(D)	(D)	628	105	8.8	135.6	203.7
New industry 3953.--Marking Devices.....	621	99	8.1	121.5	180.0	(X)	(X)	(X)	(X)	(X)
Old industry 3953.--Marking Devices.....	621	99	8.1	121.5	180.0	628	105	8.8	135.6	203.7

(X) Not applicable.

(D) Withheld to avoid disclosing figures for individual companies.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972										1967		
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3951-- PENS AND MECHANICAL PENCILS													
UNITED STATES . . . . .	117	64	10.9	81.9	8.5	16.4	52.6	213.7	104.9	310.5	7.6	11.8	140.5
NORTHEAST REGION . . . . .	63	32	4.0	31.1	3.3	6.5	21.3	92.6	37.5	129.0	3.4	4.9	64.5
NEW ENGLAND DIVISION . . . . .	12	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.3	30.8
RHODE ISLAND . . . . .	3	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
CONNECTICUT . . . . .	6	5	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
MIDDLE ATLANTIC DIVISION . . . . .	51	24	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.6	33.7
NEW YORK . . . . . E1	33	13	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.1	18.8
NEW JERSEY . . . . .	14	9	.9	7.2	.7	1.5	5.3	16.4	11.1	27.7	.7	.8	11.0
PENNSYLVANIA . . . . .	4	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
NORTH CENTRAL REGION . . . . .	20	15	3.6	30.7	2.4	4.8	16.2	63.4	30.5	90.7	1.3	3.8	47.0
EAST NORTH CENTRAL DIVISION . . . . .	14	9	1.9	19.1	1.2	2.3	8.9	40.4	19.9	57.3	.9	EE	(0)
ILLINOIS . . . . .	7	6	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.5	4.8
WISCONSIN . . . . .	3	3	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
WEST NORTH CENTRAL DIVISION . . . . .	6	6	1.7	11.6	1.3	2.4	7.3	23.0	10.6	33.4	.4	EE	(0)
IOWA . . . . .	2	2	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
MISSOURI . . . . .	3	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
SOUTH REGION . . . . .	19	11	1.5	7.6	1.3	2.4	5.4	19.6	18.4	38.9	1.4	1.7	15.2
SOUTH ATLANTIC DIVISION . . . . .	10	6	.6	3.2	.5	1.0	2.2	5.0	5.6	11.5	.6	EE	(0)
VIRGINIA . . . . .	3	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
NORTH CAROLINA . . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
FLORIDA . . . . . E1	6	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . . . .	6	4	.8	3.8	.6	1.2	2.8	13.8	12.2	25.9	(0)	88	(0)
KENTUCKY . . . . .	3	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
TENNESSEE . . . . .	3	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
WEST REGION . . . . .	15	6	1.7	12.5	1.5	2.7	9.6	38.1	18.5	52.0	1.5	1.3	13.7
PACIFIC DIVISION . . . . .	13	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
CALIFORNIA . . . . .	13	6	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
3952-- LEAD PENCILS AND ART GOODS													
UNITED STATES . . . . .	144	49	7.1	50.0	5.1	10.4	28.6	108.2	90.8	198.8	3.9	7.9	79.8
NORTHEAST REGION . . . . .	64	23	3.5	28.2	2.4	5.0	14.8	60.0	44.9	105.4	1.6	4.1	45.7
NEW ENGLAND DIVISION . . . . .	12	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	10.5
CONNECTICUT . . . . .	5	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.7	10.4
MIDDLE ATLANTIC DIVISION . . . . .	52	20	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.3	35.2
NEW YORK . . . . .	32	12	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	9.9
NEW JERSEY . . . . .	14	4	.5	4.4	.4	.6	2.2	9.7	5.0	14.8	(0)	EE	(0)
PENNSYLVANIA . . . . .	6	4	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
NORTH CENTRAL REGION . . . . .	29	10	1.4	9.6	.9	1.9	5.7	23.1	19.2	42.4	.9	1.7	18.5
EAST NORTH CENTRAL DIVISION . . . . .	22	8	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
OHIO . . . . .	6	3	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.8	7.7
INDIANA . . . . .	3	3	B8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
ILLINOIS . . . . .	9	2	.2	1.3	.1	.2	.6	3.0	1.9	5.0	(0)	.3	3.0
WEST NORTH CENTRAL DIVISION . . . . .	7	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
KANSAS . . . . .	2	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
SOUTH REGION . . . . .	28	12	2.0	10.9	1.6	3.2	7.4	22.5	24.3	46.0	.8	2.1	14.6
EAST SOUTH CENTRAL DIVISION . . . . .	18	11	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
TENNESSEE . . . . .	15	10	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.7	10.9
WEST REGION . . . . . E3	23	4	.2	1.4	.2	.3	.8	2.5	2.5	5.0	.6	(NA)	(NA)
PACIFIC DIVISION . . . . . E3	20	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA . . . . . E3	20	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
3953-- MARKING DEVICES													
UNITED STATES . . . . . E2	621	99	8.1	63.2	5.5	10.7	36.0	121.5	60.1	180.0	2.6	8.5	98.1
NORTHEAST REGION . . . . . E2	182	32	2.6	20.6	1.8	3.6	12.2	35.8	16.4	52.1	.7	2.9	32.2
NEW ENGLAND DIVISION . . . . . E3	55	10	.6	4.7	.5	.9	3.1	7.8	3.4	11.2	.2	.6	6.2
MASSACHUSETTS . . . . . E2	32	7	.4	2.8	.3	.6	1.8	4.8	2.1	6.9	.1	.4	3.2
CONNECTICUT . . . . . E3	11	2	.2	1.3	.1	.2	.8	2.0	1.0	3.1	(Z)	.2	2.3
MIDDLE ATLANTIC DIVISION . . . . . E1	127	22	2.0	15.9	1.4	2.7	9.1	28.1	13.0	40.9	.5	2.3	26.1
NEW YORK . . . . . E2	61	9	.8	6.6	.5	1.0	3.4	11.1	5.0	16.1	.2	1.1	13.4
NEW JERSEY . . . . . E2	29	4	.4	3.0	.3	.5	1.8	6.5	2.6	9.1	.1	.4	3.9
PENNSYLVANIA . . . . . E1	37	9	.8	6.3	.6	1.2	4.0	10.4	5.4	15.7	.2	.8	8.8
NORTH CENTRAL REGION . . . . . E1	167	42	3.1	25.0	1.9	3.8	13.9	49.9	24.6	74.0	1.2	3.2	38.8
EAST NORTH CENTRAL DIVISION . . . . . E1	129	33	2.3	19.2	1.4	2.8	10.3	38.5	19.4	57.5	1.1	2.5	31.5
OHIO . . . . . E2	30	8	.5	4.1	.3	.6	2.1	7.8	3.8	11.5	.1	.4	4.0
ILLINOIS . . . . .	55	17	1.3	11.3	.9	1.7	6.0	22.8	12.4	34.9	.8	1.6	20.5
MICHIGAN . . . . .	24	3	B8	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	5.0
WEST NORTH CENTRAL DIVISION . . . . .	38	9	.8	5.8	.5	1.0	3.6	11.4	5.3	16.5	.1	.7	7.4
MINNESOTA . . . . .	10	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
MISSOURI . . . . .	15	5	.4	2.9	.2	.4	1.7	6.0	3.6	9.4	.1	.3	3.9

See footnotes at end of table.



TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3953-- MARKING DEVICES--CDTINUED													
SDUTH REGION . . . . . E3	153	13	1.4	8.4	1.0	1.9	5.4	15.4	11.5	26.0	.3	1.2	17.3
SOUTH ATLANTIC DIVISION. . . . E2	79	9	1.0	6.1	.8	1.5	4.2	9.9	9.2	18.2	.3	.7	8.0
GEORGIA. . . . . E1	9	4	.5	3.1	.4	.8	2.3	3.9	5.6	8.6	.1	.4	4.2
WEST SOUTH CENTRAL DIVISION. . E6	46	3	.2	1.5	.2	.3	.8	3.8	1.6	5.4	(D)	AA	(D)
TEXAS. . . . . E5	32	2	.2	1.1	.1	.2	.6	2.2	.9	3.2	(D)	(NA)	(NA)
WEST REGION. . . . . E2	119	12	1.1	9.3	.7	1.3	4.5	20.4	7.6	27.9	.4	1.3	9.7
PACIFIC DIVISION . . . . . E2	97	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
CALIFORNIA . . . . . E2	72	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	6.8
3955-- CARBON PAPER AND INKED RIBBONS													
UNITED STATES. . . . .	83	51	5.6	47.8	3.8	7.6	27.1	110.4	122.4	233.6	5.5	6.5	93.8
NORTHEAST REGION . . . . .	34	23	2.5	19.0	1.8	3.5	11.7	52.6	56.1	108.0	2.0	3.5	49.5
NEW ENGLAND DIVISION . . . . .	5	5	.4	3.0	.3	.5	1.8	9.5	9.4	19.2	.2	.6	12.2
CONNECTICUT. . . . .	3	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
MIDDLE ATLANTIC DIVISION . . . .	29	18	2.1	16.0	1.5	2.9	9.9	43.1	46.7	88.9	1.7	2.9	37.4
NEW YORK . . . . .	16	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	26.8
NEW JERSEY . . . . . E1	8	5	.5	4.8	.5	.9	3.6	15.4	14.0	28.9	1.3	CC	(D)
PENNSYLVANIA . . . . .	5	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NORTH CENTRAL REGION . . . . .	15	10	1.8	17.5	1.0	2.2	9.1	28.9	31.3	62.5	1.6	1.8	25.1
EAST NORTH CENTRAL DIVISION. . .	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
OHIO . . . . .	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
ILLINOIS . . . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.5
WEST NORTH CENTRAL DIVISION. . .	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
INDIANA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
SDUTH REGION . . . . .	16	8	.7	4.9	.5	1.1	3.1	16.8	18.0	33.9	1.5	.4	9.7
SDUTH ATLANTIC DIVISION. . . . .	9	4	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	5.9
WEST SOUTH CENTRAL DIVISION. . .	6	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ARKANSAS . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION. . . . . E1	18	10	.7	6.5	.4	.9	3.1	12.2	17.1	29.2	.4	.7	9.5
MOUNTAIN DIVISION . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
COLORADO . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . . E1	14	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CALIFORNIA . . . . . E1	13	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3961-- COSTUME JEWELRY													
UNITED STATES. . . . . E1	766	208	21.4	132.1	17.6	32.1	82.2	275.7	198.2	471.6	6.7	22.4	220.5
NORTHEAST REGION . . . . . E1	597	184	19.3	120.8	15.8	28.8	74.8	249.3	181.8	429.1	5.9	21.0	207.4
NEW ENGLAND DIVISION . . . . .	321	111	13.5	85.7	11.3	20.6	53.2	180.2	130.4	308.7	4.2	12.7	132.8
MASSACHUSETTS. . . . .	40	15	2.9	21.9	2.4	3.9	10.3	41.6	27.2	68.2	.5	2.9	52.3
RHODE ISLAND . . . . . E1	269	91	8.9	51.6	7.6	14.1	34.7	117.2	87.8	204.1	2.4	8.1	65.2
CONNECTICUT. . . . .	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
MIDDLE ATLANTIC DIVISION . . . E2	276	73	5.8	35.1	4.5	8.2	21.6	69.2	51.4	120.4	1.8	8.2	74.6
NEW YORK . . . . . E2	254	63	4.9	30.6	3.8	6.9	18.3	61.9	46.5	108.4	1.4	7.3	66.7
NEW JERSEY . . . . . E2	16	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	4.8
PENNSYLVANIA . . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.1
NORTH CENTRAL REGION . . . . E3	32	5	.4	2.3	.3	.6	1.5	4.5	4.1	8.4	.2	.3	2.5
EAST NORTH CENTRAL DIVISION. . E3	27	5	.4	2.3	.3	.6	1.5	4.3	4.0	8.1	.2	.3	2.4
ILLINOIS . . . . . E1	15	4	.3	1.6	.2	.5	1.1	3.1	3.3	6.2	.1	.2	2.1
SDUTH REGION . . . . . E8	37	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	4.9
EAST SOUTH CENTRAL DIVISION. . E9	8	1	.2	1.0	.1	.2	.6	2.0	1.2	3.2	.1	.88	(D)
WEST REGION. . . . . E4	100	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	5.8
MOUNTAIN DIVISION . . . . . E5	26	5	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	1.3
MONTANA . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . . E4	74	12	1.0	5.8	.8	1.6	3.8	13.0	7.2	20.2	.3	.6	4.5
CALIFORNIA . . . . . E4	61	10	.8	4.9	.7	1.4	3.3	10.9	5.9	16.9	.3	.5	4.1
3962-- ARTIFICIAL FLOWERS													
UNITED STATES. . . . . E1	263	53	4.8	26.6	4.2	7.3	18.0	57.5	52.0	108.7	3.3	5.2	43.3
NORTHEAST REGION . . . . . E2	123	28	2.8	15.7	2.4	4.2	10.6	32.1	30.5	62.3	.8	3.1	28.0
NEW ENGLAND DIVISION . . . . . E1	14	4	.5	3.0	.4	.8	1.5	6.4	5.0	11.5	(Z)	.88	(D)
RHODE ISLAND . . . . .	3	2	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
MIDDLE ATLANTIC DIVISION . . . E2	109	24	2.3	12.7	2.0	3.4	9.1	25.7	25.5	50.8	.7	FF	(D)
NEW YORK . . . . . E3	76	14	1.1	6.2	.9	1.6	4.1	11.1	10.5	21.4	.4	2.0	19.1
NEW JERSEY . . . . .	17	5	.3	1.6	.2	.3	1.1	3.6	3.1	6.7	.1	(NA)	(NA)
PENNSYLVANIA . . . . . E1	16	5	.9	5.0	.8	1.5	3.9	11.0	11.9	22.7	.2	.6	4.1

See footnotes at end of table.

TABLE 2A. General Statistics by Geographic Area: 1972 and 1967—Continued

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3962-- ARTIFICIAL FLOWERS--CONTINUED													
NORTH CENTRAL REGION . . . . . E1	51	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	7.0
EAST NORTH CENTRAL DIVISION . . . E1	36	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	4.6
WEST NORTH CENTRAL DIVISION . . .	15	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.4
MISSOURI . . . . .	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION . . . . . E1	40	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	5.2
SOUTH ATLANTIC DIVISION . . . . . E4	21	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	3.7
EAST SOUTH CENTRAL DIVISION . . .	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
KENTUCKY . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
ALABAMA . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION . . . E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS . . . . . E1	11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST REGION . . . . . E2	49	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	3.1
PACIFIC DIVISION . . . . . E2	45	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
CALIFORNIA . . . . . E2	37	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.9
3963-- BUTTONS													
UNITED STATES . . . . . E1	186	51	4.0	26.7	3.2	6.0	17.6	51.8	42.8	93.7	2.3	4.8	46.1
NORTHEAST REGION . . . . . E1	145	42	3.2	22.1	2.6	4.8	14.8	40.9	31.7	73.0	2.1	4.1	39.3
NEW ENGLAND DIVISION . . . . .	11	6	.4	3.6	.4	.8	2.7	7.6	5.4	13.0	.4	CC	(D)
CONNECTICUT . . . . .	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MIDDLE ATLANTIC DIVISION . . . . . E1	134	36	2.8	18.6	2.2	4.0	12.1	33.3	26.3	60.0	(D)	FF	(D)
NEW YORK . . . . . E1	118	28	2.3	15.3	1.8	3.2	9.6	28.8	20.7	49.7	(D)	2.8	28.0
NEW JERSEY . . . . . E2	13	6	BB	(D)	(D)	(D)	(D)	(D)	20.7	(D)	(D)	.3	2.2
PENNSYLVANIA . . . . . E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
NORTH CENTRAL REGION . . . . .	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.4
WEST NORTH CENTRAL DIVISION . . .	7	5	.4	2.6	.3	.6	1.4	6.4	6.4	11.7	.1	BB	(D)
IDWA . . . . .	6	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
SOUTH REGION . . . . . E2	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.9
SOUTH ATLANTIC DIVISION . . . . . E1	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	2.8
VIRGINIA . . . . .	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3964-- NEEDLES, PINS, AND FASTENERS													
UNITED STATES . . . . .	267	125	20.2	137.7	16.1	32.0	94.6	334.5	240.1	574.7	21.2	19.2	218.1
NORTHEAST REGION . . . . .	198	85	12.0	90.2	9.1	18.0	58.7	167.0	128.5	298.4	12.5	11.8	113.6
NEW ENGLAND DIVISION . . . . .	51	29	5.1	41.5	3.9	7.8	27.1	82.5	58.5	143.1	7.8	4.4	46.9
NEW HAMPSHIRE . . . . . E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS . . . . .	9	2	.3	2.5	.2	.4	1.7	6.0	3.8	10.3	.1	.3	4.0
RHODE ISLAND . . . . .	12	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
CONNECTICUT . . . . .	27	18	3.4	28.9	2.7	5.4	20.0	56.6	42.0	100.6	5.9	3.1	34.4
MIDDLE ATLANTIC DIVISION . . . . . E1	147	56	6.9	48.7	5.3	10.2	31.6	84.5	69.9	155.3	4.7	7.4	66.6
NEW YORK . . . . . E1	133	47	3.6	23.4	2.9	5.8	16.3	48.8	50.9	99.1	2.8	4.8	45.4
NEW JERSEY . . . . .	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
PENNSYLVANIA . . . . .	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
NORTH CENTRAL REGION . . . . . E1	25	12	1.7	11.5	1.2	2.4	6.5	26.2	19.7	46.7	2.0	1.8	19.2
EAST NORTH CENTRAL DIVISION . . . E1	19	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
ILLINOIS . . . . . E1	11	8	.9	6.3	.6	1.1	3.0	13.1	11.3	24.6	(D)	.9	8.3
WEST NORTH CENTRAL DIVISION . . .	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
NEBRASKA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH REGION . . . . .	30	23	6.0	33.4	5.3	10.6	27.4	136.2	87.8	220.4	6.6	5.0	79.8
SOUTH ATLANTIC DIVISION . . . . .	20	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	48.0
VIRGINIA . . . . .	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
NORTH CAROLINA . . . . . E1	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
SOUTH CAROLINA . . . . .	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
GEORGIA . . . . .	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
FLORIDA . . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION . . .	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
KENTUCKY . . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
TENNESSEE . . . . .	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
MISSISSIPPI . . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
WEST REGION . . . . .	14	5	.6	2.5	.5	1.0	2.1	5.1	4.2	9.2	.1	.5	5.5
PACIFIC DIVISION . . . . .	8	4	.5	2.0	.4	.9	1.6	4.1	3.9	7.9	(Z)	BB	(D)
CALIFORNIA . . . . .	8	4	.5	2.0	.4	.9	1.6	4.1	3.9	7.9	(Z)	BB	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. These technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees      BB--250 to 499 employees      CC--500 to 999 employees      EE--1,000 to 2,499 employees      FF--2,500 employees and over

TABLE 2B. General Statistics by Geographic Area on Old (1967) SIC Basis:  
1972 and 1967

(See appendix, Explanation of Terms)

Geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars) *
INDUSTRY 3951.--PENS AND MECHANICAL PENCILS													
United States.....	111	59	10.2	77.0	8.0	15.4	49.8	200.2	95.6	287.6	7.0	11.8	140.5
Northeast Region.....	62	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	64.5
New England Division....	12	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	30.8
Rhode Island.....	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Connecticut.....	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
Middle Atlantic Division	50	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	33.7
New York.....	53	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	18.8
New Jersey.....	13	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	14.5
Pennsylvania.....	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	(NA)	(NA)
North Central Region..	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	47.0
East North Central Div..	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Illinois.....	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	.5	4.8
Wisconsin.....	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
West North Central Div..	6	6	1.7	11.6	1.3	2.4	7.3	23.0	10.6	33.4	.4	EE	(D)
Iowa.....	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
Missouri.....	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
South Region.....	17	9	EE	EE	EE	EE	EE	EE	EE	EE	1.0	1.7	15.2
South Atlantic Division.	10	6	16	3.2	.4	1.0	2.2	5.0	5.5	11.5	.6	EE	(D)
Virginia.....	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	(NA)	(NA)
North Carolina.....	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	EE	(D)
Florida.....	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
East South Division....	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
Kentucky.....	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee.....	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
West Region.....	15	6	1.7	12.5	1.5	2.7	9.6	38.1	18.5	52.0	1.5	1.3	13.7
Pacific Division.....	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
California.....	13	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
INDUSTRY 3953.--MARKING DEVICES													
United States.....	628	105	8.8	68.3	6.0	11.6	38.8	135.6	69.7	203.7	3.2	8.5	98.1
Northeast Region.....	183	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	32.2
New England Division....	55	10	.6	4.7	.5	.9	3.1	7.8	3.4	11.2	.2	.6	6.2
Massachusetts.....	32	7	.4	2.8	.3	.6	1.8	4.8	2.1	6.9	.1	.4	3.2
Connecticut.....	11	2	.2	1.3	.1	.2	.8	2.0	1.0	3.1	-	.2	2.3
Middle Atlantic Division	128	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	26.1
New York.....	61	9	.8	6.6	.5	1.0	3.4	11.1	5.0	16.1	.2	1.1	13.4
New Jersey.....	30	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	3.9
Pennsylvania.....	37	9	.8	6.3	.6	1.2	4.0	10.4	5.4	15.7	.2	.8	8.8
North Central Region..	170	45	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	38.8
East North Central Div..	132	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	31.5
Ohio.....	30	8	.5	4.1	.3	.6	2.1	7.8	3.8	11.5	.1	.4	4.0
Illinois.....	58	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	20.5
Michigan.....	24	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	5.0
West North Central Div..	38	9	.8	5.8	.5	1.0	3.6	11.4	5.3	16.5	.1	.7	7.4
Minnesota.....	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Missouri.....	15	5	.4	2.9	.2	.4	1.7	6.0	3.6	9.4	.1	.3	3.9
South Region.....	155	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	1.2	17.3
South Atlantic Division.	79	9	1.0	6.1	.8	1.5	4.2	9.9	9.2	18.2	.3	.7	8.0
Georgia.....	9	4	.5	3.1	.4	.8	2.3	3.9	5.6	8.6	.1	.4	4.2
West South Central Div..	47	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
Texas.....	33	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Region.....	120	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	9.7
Pacific Division.....	97	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	EE	(D)
California.....	72	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	6.8

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
 E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

- Represents zero. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. However, for such areas with 150 employees or more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees    BB--250 to 499 employees    CC--500 to 999 employees    EE--1,000 to 2,499 employees    FF--2,500 employees and over





TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(See appendix, Explanation of Terms)

(See appendix, Explanation of Terms)											
Item	Establishments  (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)	End-of-year inventories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3953-- MARKING DEVICES											
ESTABLISHMENTS, TOTAL. . . . . E2	621	8.1	63.2	5.5	10.7	36.0	121.5	60.1	180.0	2.6	21.1
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	283	.5	3.2	.4	.7	2.0	8.9	4.5	13.4	.2	1.5
5 TO 9 EMPLOYEES . . . . . E6	134	.9	6.2	.6	1.2	3.7	12.3	5.9	18.2	.3	1.8
10 TO 19 EMPLOYEES . . . . . E1	105	1.5	11.6	.9	1.9	6.6	21.9	9.2	31.1	.4	1.9
20 TO 49 EMPLOYEES . . . . .	65	1.9	15.4	1.2	2.4	8.9	28.3	13.2	41.4	.5	3.4
50 TO 99 EMPLOYEES . . . . . E1	22	1.3	11.1	.9	1.9	6.8	20.1	10.7	30.7	.6	4.5
100 TO 249 EMPLOYEES . . . . .	10	2.0	15.7	1.2	2.5	7.9	30.0	16.5	45.2	.6	8.0
250 TO 499 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	329	1.0	6.4	.8	1.4	3.8	15.4	8.3	23.7	.3	2.8
3955-- CARBON PAPER AND INKED RIBBONS											
ESTABLISHMENTS, TOTAL. . . . .	83	5.6	47.8	3.8	7.6	27.1	110.4	122.4	233.6	5.5	36.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	14	.1	.5	(2)	.1	.3	1.0	1.0	2.0	(2)	.3
5 TO 9 EMPLOYEES . . . . .	8	(D)	(D)	(0)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 TO 19 EMPLOYEES . . . . . E1	10	.1	1.1	.1	.2	.9	2.7	5.2	7.9	.2	1.0
20 TO 49 EMPLOYEES . . . . .	16	.5	4.1	.4	.7	2.6	9.1	12.2	21.3	.3	2.2
50 TO 99 EMPLOYEES . . . . . E1	21	1.5	15.1	1.1	2.3	8.8	36.0	41.7	77.8	2.2	8.3
100 TO 249 EMPLOYEES . . . . .	9	1.5	11.2	1.0	2.1	6.4	29.5	31.7	61.1	2.2	11.6
250 TO 499 EMPLOYEES . . . . .	4	1.8	15.8	1.2	2.2	8.2	32.1	30.6	63.5	.6	13.1
500 TO 999 EMPLOYEES . . . . .	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	15	(2)	.3	(2)	.1	.2	.6	.7	1.3	(2)	.2
3961-- COSTUME JEWELRY											
ESTABLISHMENTS, TOTAL. . . . . E2	766	21.4	132.1	17.6	32.1	82.2	275.7	198.2	471.6	6.7	67.8
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	305	.5	3.2	.5	.8	2.1	9.1	5.9	15.0	.4	2.1
5 TO 9 EMPLOYEES . . . . . E9	149	1.0	6.1	.8	1.6	3.9	17.3	10.7	27.9	.6	3.9
10 TO 19 EMPLOYEES . . . . . E4	104	1.4	8.5	1.2	2.1	5.6	22.3	14.9	37.0	.4	3.7
20 TO 49 EMPLOYEES . . . . . E1	117	3.8	22.8	3.0	5.3	13.9	44.3	35.3	79.6	1.1	9.4
50 TO 99 EMPLOYEES . . . . .	47	3.2	18.6	2.8	4.9	12.2	35.2	29.2	63.5	.7	7.5
100 TO 249 EMPLOYEES . . . . .	29	4.6	24.2	3.8	6.8	16.4	42.3	37.6	79.3	1.4	10.4
250 TO 499 EMPLOYEES . . . . .	11	3.8	25.5	3.0	6.3	16.2	53.6	36.9	90.5	1.3	15.2
500 TO 999 EMPLOYEES . . . . .	3	3.0	23.2	2.5	4.4	11.8	51.6	27.6	78.8	.8	15.5
1,000 TO 2,499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	368	1.4	8.8	1.2	2.2	5.6	25.1	16.1	41.2	.9	6.0
3962-- ARTIFICIAL FLOWERS											
ESTABLISHMENTS, TOTAL. . . . . E1	263	4.8	26.6	4.2	7.3	18.0	57.5	52.0	108.7	3.3	21.3
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	115	.2	1.1	.2	.3	.6	2.7	2.1	4.8	1.3	.8
5 TO 9 EMPLOYEES . . . . . E8	54	.4	2.0	.3	.6	1.2	4.3	3.4	7.8	.3	1.3
10 TO 19 EMPLOYEES . . . . . E3	41	.6	3.5	.5	.9	2.1	7.6	8.6	16.2	.2	2.6
20 TO 49 EMPLOYEES . . . . . E1	32	1.0	5.5	.9	1.3	3.7	10.2	10.2	20.3	.4	3.5
50 TO 99 EMPLOYEES . . . . . E1	14	.9	5.1	.8	1.5	3.6	11.5	8.6	19.6	.3	4.1
100 TO 249 EMPLOYEES . . . . .	6	1.8	9.5	1.6	2.8	6.6	21.1	19.1	40.0	.7	9.0
250 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(D)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	146	.6	3.1	.6	1.0	2.0	7.0	5.7	12.7	.4	2.2
3963-- BUTTONS											
ESTABLISHMENTS, TOTAL. . . . . E1	186	4.0	26.7	3.2	6.0	17.6	51.8	42.8	93.7	2.3	12.6
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	67	.2	.9	.1	.2	.6	2.1	2.1	4.1	.2	.3
5 TO 9 EMPLOYEES . . . . . E5	44	.3	1.6	.2	.4	1.1	3.4	2.2	5.7	.1	.5
10 TO 19 EMPLOYEES . . . . . E2	24	.3	2.0	.3	.5	1.4	4.1	3.3	7.5	.1	.7
20 TO 49 EMPLOYEES . . . . . E1	27	.9	5.4	.7	1.4	4.0	9.4	8.2	17.3	.5	2.0
50 TO 99 EMPLOYEES . . . . .	16	1.1	8.0	.9	1.8	5.2	15.7	11.5	27.4	.9	3.7
100 TO 249 EMPLOYEES . . . . .	7	1.3	8.9	.9	1.7	5.3	17.3	15.5	31.8	.5	5.3
250 TO 499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	84	.3	1.8	.3	.5	1.2	3.4	3.0	6.4	.1	.7
3964-- NEELES, PINS, AND FASTENERS											
ESTABLISHMENTS, TOTAL. . . . .	267	20.2	137.7	16.1	32.0	94.6	334.5	240.1	574.7	21.2	94.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E6	68	.1	.9	.1	.2	.5	2.6	2.3	5.1	.2	.7
5 TO 9 EMPLOYEES . . . . . E7	41	.3	1.8	.2	.4	1.3	4.7	3.9	8.6	.4	1.3
10 TO 19 EMPLOYEES . . . . . E3	33	.4	2.9	.4	.7	1.9	6.4	5.2	11.6	.3	1.2
20 TO 49 EMPLOYEES . . . . . E1	50	1.6	10.5	1.3	2.6	7.4	19.9	18.2	38.1	1.3	4.9
50 TO 99 EMPLOYEES . . . . .	21	1.6	10.9	1.3	2.7	7.1	23.3	27.0	49.9	.6	5.4
100 TO 249 EMPLOYEES . . . . .	33	5.3	35.2	4.3	8.5	25.8	100.0	80.0	177.7	7.4	32.0
250 TO 499 EMPLOYEES . . . . .	14	5.1	32.4	4.1	8.1	21.7	107.7	62.4	169.6	5.1	21.4
500 TO 999 EMPLOYEES . . . . .	5	5.8	43.0	4.4	8.8	29.0	70.0	41.2	114.2	5.9	27.0
1,000 TO 2,499 EMPLOYEES . . . . .	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	80	.3	1.8	.3	.5	1.3	5.4	3.7	9.2	.4	1.6

See footnotes on next page.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972—Continued

(Footnotes for table 4)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment—generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balances of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3951	PENS AND MECHANICAL PENCILS										
	ENTIRE INDUSTRY . . . . .	117	10.9	81.9	8.5	16.4	52.6	213.7	104.9	310.5	7.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	106	9.7	74.9	7.5	14.5	47.2	198.3	88.7	278.9	6.7
3952	LEAD PENCILS AND ART GOODES										
	ENTIRE INDUSTRY . . . . .	144	7.1	50.0	5.1	10.4	28.6	108.2	90.8	198.8	3.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	130	4.4	31.6	3.1	6.4	18.0	70.7	60.4	131.6	2.4
39521	LEAD PENCILS AND CRAYONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	24	3.6	24.4	2.6	5.1	12.9	47.2	37.2	84.2	1.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	14	1.2	8.7	.9	1.8	4.2	15.6	13.3	29.1	.9
39522	ARTISTS' MATERIALS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	42	3.1	23.5	2.3	4.8	14.3	56.2	49.0	105.2	1.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	38	2.7	20.2	1.9	4.0	12.2	49.6	41.9	91.8	1.2
3953	MARKING DEVICES										
	ENTIRE INDUSTRY . . . . .	621	8.1	63.2	5.5	10.7	36.0	121.5	60.1	180.0	2.6
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	602	6.8	51.0	4.7	9.1	29.6	99.0	49.9	147.5	1.9
3955	CARBON PAPER AND INKED RIBBONS										
	ENTIRE INDUSTRY . . . . .	83	5.6	47.8	3.8	7.6	27.1	110.4	122.4	233.6	5.5
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	76	5.1	43.6	3.4	6.9	24.9	98.7	112.4	212.7	4.0
39551	INKED RIBBONS, ALL TYPES (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	19	2.3	17.2	1.6	3.1	10.1	51.6	48.3	99.2	2.9
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	10	.8	6.2	.6	1.2	3.7	16.9	17.8	34.6	.3
39552	CARBON PAPER, STENCIL PAPER, ETC. (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	38	2.9	28.5	1.9	4.1	15.8	53.8	68.6	123.8	2.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	29	2.1	20.8	1.3	2.9	10.6	37.0	51.1	90.8	2.0
3961	COSTUME JEWELRY										
	ENTIRE INDUSTRY . . . . .	766	21.4	132.1	17.6	32.1	82.2	275.7	198.2	471.6	6.7
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	740	17.6	108.7	14.4	26.4	68.1	229.5	165.6	395.6	6.1
3962	ARTIFICIAL FLOWERS										
	ENTIRE INDUSTRY . . . . .	263	4.8	26.6	4.2	7.3	18.0	57.5	52.0	108.7	3.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	258	4.0	22.3	3.5	6.1	14.6	48.5	40.6	88.5	3.1
3963	BUTTONS										
	ENTIRE INDUSTRY . . . . .	186	4.0	26.7	3.2	6.0	17.6	51.8	42.8	93.7	2.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	180	3.8	25.1	3.1	5.7	16.9	48.2	37.6	86.1	2.3
3964	NEEDLES, PINS, AND FASTENERS										
	ENTIRE INDUSTRY . . . . .	267	20.2	137.7	16.1	32.0	94.6	334.5	240.1	574.7	21.2
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	252	17.8	120.9	14.4	28.4	83.6	294.5	202.4	496.7	18.8
39641	ZIPPER AND SLIDE FASTENERS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	74	7.9	49.4	6.3	12.3	35.2	144.5	108.8	251.0	7.3
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	73	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
39642	NEEDLES, FASTENERS (EXC. SLIDE), SIMILAR NOTIONS (PRIMARY PRODUCT CLASS OF ESTABLISHMENT). . . . .	77	11.2	81.5	8.9	17.9	54.6	171.5	119.7	294.1	11.4
	ESTABLISHMENTS WITH 75% OR MORE SPECIALIZATION. . . . .	65	8.9	64.9	7.2	14.4	43.7	131.7	82.0	216.4	9.0

(D) Withheld to avoid disclosing figures for individual companies.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product special- ization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	$\frac{\text{Col. B}}{\text{Col. B \& C}}$ (percent)	(million dollars)	(million dollars)	(million dollars)	$\frac{\text{Col. B}}{\text{Col. F}}$ (percent)
		A	B	C	D	E	F	G	H	I
3951	Pens and mechanical pencils <sup>1</sup> .....1972..	310.5	282.9	23.5	4.1	92	311.7	282.9	28.8	91
	.....1967..	211.8	193.1	14.9	3.7	93	210.8	193.1	17.7	92
3952	Lead pencils and art goods.....1972..	198.8	153.6	32.0	13.2	83	174.3	153.6	20.7	88
	.....1967..	158.9	123.7	22.3	12.9	85	133.2	123.7	9.6	93
3953	Marking devices <sup>1</sup> .....1972..	180.0	148.5	16.4	15.1	90	163.4	148.5	14.9	91
	.....1967..	146.3	118.9	13.3	14.2	90	130.8	118.9	11.9	91
3955	Carbon paper and inked ribbons.....1972..	233.6	194.7	21.3	17.6	90	317.5	194.7	122.8	61
	.....1967..	206.8	175.9	11.3	19.6	94	221.5	175.9	45.5	79
3961	Costume jewelry.....1972..	471.6	395.6	31.8	44.2	93	441.7	395.6	46.1	90
	.....1967..	376.5	309.9	16.4	50.2	95	338.2	309.9	28.3	92
3962	Artificial flowers.....1972..	108.7	93.2	7.2	8.3	93	101.8	93.2	8.6	92
	.....1967..	84.7	73.5	2.2	8.9	97	86.3	73.5	12.8	85
3963	Buttons.....1972..	93.7	83.9	5.5	4.3	94	103.1	83.9	19.2	81
	.....1967..	80.8	75.3	2.7	2.8	97	83.8	75.3	8.5	90
3964	Needles, pins, and fasteners.....1972..	574.7	509.9	34.2	30.6	94	553.6	509.9	43.7	92
	.....1967..	385.3	341.6	24.3	19.5	93	381.4	341.6	39.8	89

<sup>1</sup>1972 and 1967 data are not directly comparable (see table 1A, footnote 2).

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Pens and mechanical pencils (SIC 3951)	Lead pencils and art goods (SIC 3952)	Marking devices (SIC 3953)	Carbon paper and inked ribbons (SIC 3955)	Costume jewelry (SIC 3961)	Artificial flowers (SIC 3962)	Buttons (SIC 3963)	Needles, pins, and fasteners (SIC 3964)	Other industries	
	Total shipments and miscellaneous receipts.....	(X)	310.5	198.8	180.0	233.6	1,471.6	108.7	93.7	574.7	(X)	
3951-	Pens and mechanical pencils.....	311.7	282.9	12.3	.9	(under 2)	(under 2)	-	-	-	15.1	
3952-	Lead pencils and art goods.....	174.3	6.5	153.6	(under 2)	-	-	-	-	-	(10-20)	
39521	Lead pencils and crayons.....	63.1	4.0	57.0	(under 2)	-	-	-	-	-	(over 2)	
39522	Artists' materials.....	101.4	2.5	87.8	-	-	-	-	-	-	11.	
39520	Pens, pencils, office, and art supplies, n.s.k.....	9.8	-	8.8	-	-	-	-	-	-	1.0	
3953-	Hand stamps, stencils, and other marking devices.....	163.4	(under 2)	(5-10)	148.5	-	-	-	-	(under 2)	7.2	
3955-	Carbon paper and inked ribbons.....	317.5	-	-	-	194.7	-	-	-	-	122.8	
39551	Inked ribbons, all types.....	150.0	-	-	-	71.1	-	-	-	-	78.9	
39552	Carbon paper, stencil paper.....	153.8	-	-	-	106.9	-	-	-	-	46.9	
39950	Carbon paper and inked ribbons, n.s.k....	13.7	-	-	-	10.0	-	-	-	-	3.7	
3961-	Costume jewelry.....	441.7	-	-	-	-	395.6	-	-	-	46.1	
3962-	Artificial flowers.....	101.8	-	-	-	-	-	93.2	-	-	8.6	
3963-	Buttons and parts, except of precious or semiprecious metals or stone.....	103.1	-	-	(under 2)	-	-	-	83.9	6.8	(10-20)	
3964-	Needles, pins, and fasteners.....	553.6	-	-	-	-	(under 2)	-	(5-10)	509.9	38.8	
39641	Zippers and slide fasteners.....	254.5	-	-	-	-	-	-	(2-5)	243.4	(5-10)	
39642	Needles, pins, fasteners (except slide), and similar notions.....	265.7	-	-	-	-	(under 2)	-	.5	235.1	(20-50)	
39640	Needles, pins, and fasteners, n.s.k.....	33.4	-	-	-	-	-	-	-	33.0	.4	
	Other product shipments by 4-digit product code:											
2339-	Womens' and misses' outerwear, n.e.c....	(X)	-	-	-	-	-	-	-	(over 2)	(X)	
2591-	Drapery hardware and blinds and shades..	(X)	-	-	-	-	-	(over 2)	-	(under 2)	(X)	
2641-	Coated and glazed paper.....	(X)	-	-	(over 2)	(under 2)	-	-	-	-	(X)	
2649-	Converted paper products, n.e.c.....	(X)	-	-	-	(2-5)	-	-	-	(under 2)	(X)	
2893-	Printing ink.....	(X)	-	-	3.0	1.9	-	-	-	-	(X)	
2899-	Chemical preparations, n.e.c.....	(X)	2.2	(under 2)	1.4	(under 2)	-	-	-	-	(X)	
3069-	Fabricated rubber products, n.e.c.....	(X)	-	(5-10)	-	-	-	-	-	(under 2)	(X)	
3079-	Miscellaneous plastics products.....	(X)	(under 2)	-	(under 2)	-	(2-5)	(under 2)	-	(under 2)	(X)	
3172-	Personal leather goods, n.e.c.....	(X)	-	-	-	-	(over 2)	-	-	-	(X)	
3479-	Metal coating and allied services.....	(X)	-	-	.3	-	(over 2)	-	-	-	(X)	
3499-	Fabricated metal products, n.e.c.....	(X)	-	-	-	-	(under 2)	(under 2)	-	(over 2)	(X)	
3559-	Special industry machinery, n.e.c.....	(X)	-	(over 2)	(under 2)	-	-	-	-	(under 2)	(X)	
3579-	Office machines, n.e.c.....	(X)	-	(under 2)	(2-5)	(over 2)	-	-	-	-	(X)	
3861-	Photographic equipment and supplies.....	(X)	-	(2-5)	-	(under 2)	-	-	-	-	(X)	
3911-	Jewelry, silverware, and plated ware....	(X)	-	-	-	-	13.2	-	-	-	(X)	
3915-	Jewelers' materials and lapidary work...	(X)	-	-	-	-	2.9	-	-	(under 2)	(X)	
3991-	Brooms and brushes.....	(X)	(2-5)	-	-	-	-	-	-	-	(X)	
3999-	Manufactures, n.e.c.....	(X)	(under 2)	-	(under 2)	-	(under 2)	.5	-	8.9	(X)	
	Miscellaneous receipts, total.....	(X)	4.1	13.2	15.1	17.6	44.2	8.3	4.3	30.6	(X)	
	Resales.....	(X)	3.3	12.8	13.3	16.8	37.8	8.3	3.6	26.9	(X)	
	Contract work.....	(X)	(under 2)	(under 2)	.4	(under 2)	5.3	-	.5	.5	(X)	
	Other miscellaneous receipts.....	(X)	(under 2)	(under 2)	1.4	(under 2)	1.1	(Z)	.2	3.2	(X)	
Product code	Industry, class of products, and miscellaneous receipts	Other industries		Product code	Industry, class of products, and miscellaneous receipts						Other industries	
	Listing of other industries with over \$2 million shipments of primary products				Listing of other industries with over \$2 million shipments of primary products--continued							
3951-	2771 Greeting card publishing.....	(over 2)		3962-	3999 Manufacturing industries, n.e.c.....							6.8
	3999 Manufacturing industries, n.e.c.....	(over 2)										
	3944 Games, toys, and children's vehicles.....	(over 2)		3963-	3469 Metal stampings, n.e.c.....							(5-10)
	2641 Paper coating and glazing.....	(over 2)			3679 Electronic components, n.e.c.....							(over 2)
	2645 Die-cut paper and board.....	(over 2)			3944 Games, toys, and children's vehicles.....							(over 2)
	2649 Converted paper products, n.e.c.....	(5-10)										
	2761 Manifold business forms.....	(5-10)		3964-	2283 Wool yarn mills.....							(over 2)
	2795 Lithographic platemaking services.....	(over 2)			3429 Hardware, n.e.c.....							(over 2)
	3579 Office machines, n.e.c.....	(over 2)			3452 Bolts, nuts, rivets, and washers.....							(over 2)
3961-	3679 Electronic components, n.e.c.....	(over 2)			3465 Automotive stampings.....							(over 2)
	3911 Jewelry, precious metal.....	31.7			3469 Metal stampings, n.e.c.....							4.7
	3999 Manufacturing industries, n.e.c.....	(over 2)			3861 Photographic equipment and supplies.....							(over 2)

Note: Data shown parentbetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (Z) Less than half of the unit of measurement shown.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3951- --	PENS AND MECHANICAL PENCILS, TOTAL <sup>1</sup> .....		(X)	311.7	(X)	226.3
	Pens:					
	Fountain pens, complete (all types, except ballpoint) (retail price):					
39510 01	\$1.00 each and under.....	Million units.	(X)	(2)	27.0	20.2
39510 05	\$1.01 to \$5.00 each.....	..do.....				
39510 06	Over \$5.00 each.....	..do.....				
	Ballpoint-type pens, complete (retail price):					
39510 11	\$0.20 each and under.....	..do.....	734.4	50.5	541.3	32.4
39510 12	\$0.21 to \$0.30 each.....	..do.....	(NA)	22.6	174.9	20.1
39510 15	\$0.31 to \$0.50 each.....	..do.....	134.9	15.8	144.0	18.8
39510 16	\$0.51 to \$1.00 each.....	..do.....	37.1	12.4	18.9	5.8
39510 17	\$1.01 to \$2.00 each.....	..do.....	15.6	13.2	22.4	12.7
39510 18	\$2.01 and over.....	..do.....	15.7	31.7	5.8	12.6
	Soft-tip pens (fine point marker):					
39510 21	Fibre-tipped.....	..do.....	176.4	30.4	54.0	9.1
39510 23	Porous-tipped.....	..do.....	(X)	15.9	45.7	6.1
39510 29	Other.....	..do.....			(X)	.3
39510 43	Broad-tipped markers, including felt-tipped, fibre-tipped and porous-tipped.....	Million units.	69.6	17.2	(NA)	15.5
39510 41	Desk sets, including fountain-pen type, ballpoint type, and inkwell reservoir (dip) type.....	..do.....	5.1	6.5	5.0	7.6
	Mechanical pencils (retail price):					
39510 53	\$0.50 each and under.....	..do.....	49.2	3.8	38.1	7.0
39510 55	Over \$0.50 each.....	..do.....	27.4	17.8	9.2	9.7
39510 63	Miscellaneous pen and mechanical pencil parts, for sale separately, such as penholders, penpoints (all types), and renewal parts.....	..do.....	(X)	239.4	(X)	24.3
39510 71	Refill ink cartridges for ballpoint pens.....	Million units.	2,303.9	18.7	(NA)	13.0
39510 00	Pens and mechanical pencils, n.s.k., for establishments with 10 employees or more. (See note.).....	..do.....	(X)	11.2	(X)	9.4
39510 02	Pens and mechanical pencils, n.s.k., for establishments with less than 10 employees. (See note.).....	..do.....	(X)	4.6	(X)	1.7
3952- --	LEAD PENCILS AND ART GOODS, TOTAL.....		(X)	174.3	(X)	133.2
39521 --	Lead Pencils and Crayons.....		(X)	63.1	(X)	73.6
	Nonmechanical pencils and graphite sticks:					
	Pencils:					
39521 11	Black graphite.....	Million gross.	9.3	42.4	15.4	38.2
39521 15	Other (indelible, colored, etc.).....	..do.....	1.2	12.1	1.5	7.2
39521 23	Graphite and colored sticks, including refill sticks for mechanical pencils, for sale separately.....	..do.....	(X)	3.4	(X)	5.5
39521 52	Crayons, except artists' and tailors'.....	..do.....	(X)	3.5	(X)	20.4
39521 54	Cbalk, except artists' and tailors'.....	..do.....	(X)	1.2	(X)	2.0
39521 00	Lead pencils and crayons, n.s.k.....	..do.....	(X)	.5	(X)	.3
39522 --	Artists' Materials.....		(X)	101.4	(X)	53.8
39522 13	Artists' materials, including children's school art materials, airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, pyrography goods, and materials.....	..do.....	(X)	53.6	(X)	53.8
39522 15	Waxed and pressed drawing crayons.....	..do.....	(X)			
39522 19	Other school art products, including modeling clay and modeling material, chalk, water colors, tempers colors, finger paint, and block printing ink.....	..do.....	(X)	46.9		
39522 00	Artists' materials, n.s.k.....	..do.....	(X)	.9		
39520 00	Pens, pencils, office and art supplies, n.s.k., for establishments with 10 employees or more. (See note.).....	..do.....	(X)	5.2	(X)	3.8
39520 02	Pens, pencils, office and art supplies, n.s.k., for establishments with less than 10 employees. (See note.).....	..do.....	(X)	4.6	(X)	2.0

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972	1967			
3953- --	MARKING DEVICES, TOTAL <sup>1</sup> .....	163.4	115.3			
	Hand Stamps, Stencils, and Other Marking Devices:					
	Rubber and vinyl stamps:					
39530 13	Hand stamps, type, holders, and dies, custom and stock.....	38.2	24.7			
39530 15	Permanently inked stamps, excluding printing dies.....	4.7	1.5			
39530 33	Mechanical hand stamps, self inkers including daters, time and numbering stamps, and metal and rubber wheel band goods.....	17.7	} 27.2			
39530 35	Embossing seals, including notary, engineering, corporate, stationery, etc.....	3.5				
39530 37	Metal hand stamps; steel incising and embossing dies; letter and figure stamps, type and type holders; steel embossing and incising numbering heads; and nonferrous type and dies.....	15.3				
39530 98	Other marking devices, such as stencils, letter, figures and numerals, stamp pads, and branding irons, (excluding broad tipped markers).....	40.5	33.5			
39530 00	Marking devices, n.s.k., for establishments with 10 employees or more. (See note.).....	19.8	16.1			
39530 02	Marking devices, n.s.k., for establishments with less than 10 employees. (See note.).....	23.7	12.3			
1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3955- --	CARBON PAPER AND INKED RIBBONS, TOTAL.....		(X)	317.5	(X)	221.5
39551 --	Inked Ribbons, All Types.....		(X)	150.0	(X)	68.6
39551 12	Typewriter fabric ribbons.....	Million dozen.	(NA)	38.1	(NA)	24.0
39551 14	Typewriter film ribbons.....	do.....	(NA)	50.1	(NA)	18.5
39551 17	Computer (electronic data processing) ribbons.....	do.....	(NA)	41.9	(NA)	10.2
39551 19	Other inked ribbons.....	do.....	(NA)	19.9	(NA)	15.9
39552 --	Carbon Paper, Stencil Paper, Etc.....		(X)	153.8	(X)	142.1
	Coated carbon paper (in roll and sheet):					
39552 31	One time.....	1,000 tons...	106.2	74.4	88.2	55.9
39552 35	Other than one time.....	do.....	(NA)	19.6	(NA)	35.0
39552 61	Stencil paper, spirit, and gelatin process master copies (including master sets).....		(X)	24.3	(X)	26.3
39552 98	All other, including mimeograph stencil paper, but excluding inked ribbons.....		(X)	35.5	(X)	24.9
39550 00	Carbon paper and inked ribbons, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	9.6	(X)	9.8
39550 02	Carbon paper and inked ribbons, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	4.1	(X)	1.0
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
3961- --	COSTUME JEWELRY, TOTAL.....	441.7		338.2		
	Base Metal, Whether or Not Electroplated With Gold, Silver, Chromium, Etc.:					
39610 11	Rings and ring mountings.....	28.8		( <sup>3</sup> )		
39610 21	Men's jewelry, excluding watch attachments and rings.....	29.8		42.1		
39610 31	Women's and children's jewelry and costume novelties, excluding watch attachments and rings.....	151.6		103.7		
39610 41	Watch attachments (bracelets for watches).....	30.5		20.9		
39610 51	Fraternal, college, and school jewelry and emblems, including military insignia but excluding rings.	28.1		24.8		
39610 61	Religious jewelry, such as rosaries, chaplets, religious medals, and crosses.....	4.3		4.4		
39610 71	Other jewelry worn or carried about the person, except cigar and cigarette cases and lighters, compacts, and vanity cases.....	19.0		5.1		
39610 81	Imitation pearls (including necklaces) made of glass, plastic, or other materials.....	9.9		11.4		
39610 91	Compacts and vanity cases, except precious metals and all leather.....	15.5		10.2		
39610 98	Other costume jewelry and costume novelties made of plastics, wood, leather, etc.....	35.8		47.1		
39610 00	Costume jewelry, n.s.k., for establishments with 10 employees or more. (See note.).....	47.2		47.2		
39610 02	Costume jewelry, n.s.k., for establishments with less than 10 employees. (See note.).....	41.2		21.3		
3962- --	ARTIFICIAL FLOWERS, TOTAL.....	101.8		86.3		
39620 13	Artificial Christmas trees, all types (metal, plastic, etc.).....	33.5		33.1		
	Artificial flowers:					
39620 15	Plastic type.....	25.6		18.3		
39620 17	Other materials.....	10.9		14.1		
39620 21	Feathers and plumes.....	8.8		4.2		
39620 00	Artificial flowers, n.s.k., for establishments with 10 employees or more. (See note.).....	10.3		10.4		
39620 02	Artificial flowers, n.s.k., for establishments with less than 10 employees. (See note.).....	12.7		6.1		

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3963- --	BUTTONS, TOTAL.....	.....	(X)	103.1	(X)	83.8 <sup>a</sup>
	Buttons and Parts, Except of Precious or Semiprecious Metals or Stone:					
	Metal:					
39630 11	Sew-on type.....	Million gross.	6.7	13.9	(NA)	12.6
39630 15	Other metal buttons, including mechanically applied types, etc.....	...do.....	13.5	9.5	(NA)	6.0
	Plastic:					
39630 21	Casein and casein compound.....	...do.....	1.3	4.9	(NA)	6.7
	Other plastics:					
39630 23	Thermosetting (excluding polyester).....	...do.....	20.8	6.1	(NA)	6.0
39630 25	Thermoplastic (including acrylic).....	...do.....	27.5	5.6	(NA)	1.9
39630 41	Polyester.....	...do.....	64.6	25.0	84.4	21.7
39630 61	Button blanks or molds, backs and parts for sale as such.....	.....	(X)	13.3	(X)	6.7
39630 98	Other buttons, fabric covered, wood, bone and hoof, vegetable ivory, leather, and pearl or shell, etc.....	.....	(X)	9.4	(X)	4.4
39630 00	Buttons, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	9.0	(X)	13.1
39630 02	Buttons, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	6.4	(X)	4.7
3964- --	NEEDLES, PINS, AND FASTENERS, TOTAL.....	.....	(X)	553.6	(X)	381.4
39641 --	Zipper and Slide Fasteners (Each 12 Inches Is One Unit When Sold In Continuous Chain).....	.....	(X)	254.5	(X)	201.5
39641 21	Nylon and other plastics.....	Million units.	1,189.6	135.3	1,268.5	81.9
	Metal:					
39641 31	Aluminum.....	...do.....	957.1	55.6	1,066.1	45.8
39641 33	Brass.....	...do.....	351.7	42.9	786.0	57.8
39641 39	Other.....	...do.....	210.4	19.5	(NA)	14.9
39641 00	Zipper and slide fasteners, n.s.k.....	.....	(X)	1.2	(X)	1.1
39642 --	Needles, Pins, Fasteners (Except Slide), and Similar Notions.....	.....	(X)	265.7	(X)	153.8
	Snap fasteners:					
39642 11	Sew-on type.....	1,000 great gross.	799.3	8.2	230.2	1.0
39642 19	Other snap fasteners, such as 4-part, riveted, or mechanically applied type, etc.....	.....	(X)	55.8	(NA)	30.0
39642 21	Metal buckles for wearing apparel, including those covered with fabric or other material, but excluding costume jewelry.....	.....	(X)	37.6	(X)	12.4
39642 31	Other fasteners, buckles (except shoe), and apparel trimming (hooks and eyes, rivets and burrs, trimming, plastic buckles, etc.).....	.....	(X)	50.4	(X)	19.5
39642 41	Tape fasteners (hook and eye and snap).....	1,000 gross yds.....	(NA)	3.7	141.0	5.4
39642 51	Hair curlers, except rubber and those designed for beauty parlor use.....	1,000 great gross.	4,724.2	18.5	(NA)	29.3
	Needles, except hypodermic, phonograph, and styli:					
39642 65	Sewing machine (household and industrial dry-thread).....	1,000.....	(NA)	41.9	(NA)	22.4
39642 69	Other needles, except phonograph and styli (including shoe machine, handsewing, handknitting, crocheting, darning, etc.).....	...do.....				
	Pins, except jewelry:					
39642 81	Common or toilet, including dressmakers' pins.....	1,000 lb.....	1,846.4	8.0	4,427.3	9.5
39642 83	Hairpins, metal "bobby" type.....	...do.....	10,308.5	8.9	6,017.7	9.1
39642 87	Safety pins.....	Million gross.	9.3	4.3	14.3	4.5
39642 89	Other pins, hatpins, glasshead pins, plastic, and metal hairpins, other than metal "bobby" type, etc.....	...do.....	(NA)	25.3	(NA)	6.0
39642 00	Needles, pins, fasteners (except slide), and similar notions, n.s.k.....	.....	(X)	3.1	(X)	4.5
39640 00	Needles, pins and fasteners, n.s.k., for companies with 10 employees or more. (See note.).....	.....	(X)	24.2	(X)	20.9
39640 02	Needles, pins, and fasteners, n.s.k., for companies with less than 10 employees. (See note.).....	.....	(X)	9.2	(X)	5.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

(X) Not applicable. (NA) Not available.

<sup>1</sup>Broad-tipped markers, formerly in industry 3953 (product code 39530 43), are now included in industry 3951 (product code 39510 43). This product code shift out of industry 3953 represents approximately 11 percent of the total 1967 shipments of products in 3953. The product code shift into industry 3951 is approximately 8 percent of the total 1967 shipments of products in 3951.

<sup>2</sup>Data for fountain pens are included with "Miscellaneous pen and mechanical pencil parts" (product code 39510 63) to avoid disclosing data of individual companies.

<sup>3</sup>In 1967, data for product code 39610 11, Base metal rings and ring mountings, are included with product code 39610 98, Other costume jewelry, etc.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
LEAD PENCILS AND CRAYONS (39551)			INKED RIBBONS, ALL TYPES (39551)--Continued		
United States.....	63.1	73.6	West Region.....	CC	(NA)
Northeast Region.....	25.9	FF	Mountain Division.....	AA	(NA)
New England Division.....	EE	CC	Colorado.....	AA	(NA)
Connecticut.....	EE	CC	Pacific Division.....	BB	(NA)
Middle Atlantic Division.....	EE	29.3	California.....	BB	(NA)
New Jersey.....	8.8	9.7	CARBON PAPER, STENCIL PAPER, ETC. (39552)		
Pennsylvania.....	BB	EE	United States.....	153.8	(NA)
New York.....	(NA)	BB	Northeast Region.....	44.5	(NA)
North Central Region.....	6.5	6.9	New England Division.....	CC	(NA)
East North Central Division.....	3.2	2.6	Massachusetts.....	CC	(NA)
Ohio.....	AA	AA	Connecticut.....	BB	(NA)
West North Central Division.....	3.3	4.3	Middle Atlantic Division.....	37.2	(NA)
Iowa.....	AA	(NA)	New York.....	FF	(NA)
Missouri.....	BB	AA	New Jersey.....	EE	(NA)
Kansas.....	(NA)	AA	Pennsylvania.....	CC	(NA)
South Region.....	30.3	27.2	North Central Region.....	66.6	(NA)
South Atlantic Division.....	BB	BB	East North Central Division.....	GG	(NA)
Georgia.....	BB	BB	Ohio.....	BB	(NA)
East South Central Division.....	FF	FF	Illinois.....	49.8	(NA)
Tennessee.....	FF	FF	Michigan.....	BB	(NA)
Kentucky.....	(NA)	AA	West North Central Division.....	CC	(NA)
ARTISTS' MATERIALS (39522)			Iowa.....	CC	(NA)
United States.....	101.4	(NA)	South Region.....	23.1	(NA)
Northeast Region.....	60.0	(NA)	South Atlantic Division.....	11.4	(NA)
New England Division.....	CC	(NA)	North Carolina.....	AA	(NA)
Massachusetts.....	CC	(NA)	Georgia.....	CC	(NA)
Connecticut.....	BB	(NA)	Florida.....	AA	(NA)
Middle Atlantic Division.....	GG	(NA)	West South Central Division.....	CC	(NA)
New York.....	27.7	(NA)	Texas.....	6.0	(NA)
New Jersey.....	3.4	(NA)	West Region.....	19.6	(NA)
Pennsylvania.....	FF	(NA)	Mountain Division.....	BB	(NA)
North Central Region.....	31.5	(NA)	Colorado.....	BB	(NA)
East North Central Division.....	FF	(NA)	Pacific Division.....	EE	(NA)
Ohio.....	15.5	(NA)	Oregon.....	AA	(NA)
Indiana.....	CC	(NA)	California.....	14.5	(NA)
Illinois.....	CC	(NA)	ZIPPER AND SLIDE FASTENERS (EACH 12 INCHES IS ONE UNIT WHEN SOLD IN CONTINUOUS CHAIN) (39641)		
West North Central Division.....	BB	(NA)	United States.....	254.5	201.5
Kansas.....	BB	(NA)	Northeast Region.....	90.9	94.6
South Region.....	4.5	(NA)	New England Division.....	3.0	6.3
East South Central Division.....	BB	(NA)	Rhode Island.....	BB	BB
Kentucky.....	BB	(NA)	Middle Atlantic Division.....	87.9	88.4
Tennessee.....	AA	(NA)	New York.....	GG	GG
West Region.....	4.2	(NA)	New Jersey.....	CC	CC
Pacific Division.....	4.2	(NA)	Pennsylvania.....	EE	EE
California.....	4.2	(NA)	North Central Region.....	CC	BB
INKED RIBBONS, ALL TYPES (39551)			East North Central Division.....	AA	(NA)
United States.....	150.0	(NA)	Illinois.....	AA	(NA)
Northeast Region.....	50.2	(NA)	West North Central Division.....	BB	BB
New England Division.....	EE	(NA)	Iowa.....	BB	(NA)
Connecticut.....	EE	(NA)	Missouri.....	AA	AA
Middle Atlantic Division.....	FF	(NA)	South Region.....	155.3	101.3
New York.....	22.6	(NA)	South Atlantic Division.....	GG	GG
New Jersey.....	EE	(NA)	Virginia.....	EE	CC
Pennsylvania.....	BB	(NA)	North Carolina.....	FF	EE
North Central Region.....	EE	(NA)	South Carolina.....	FF	CC
East North Central Division.....	EE	(NA)	Georgia.....	FF	FF
Ohio.....	CC	(NA)	Florida.....	BB	(NA)
Indiana.....	CC	(NA)	East South Central Division.....	FF	FF
South Region.....	80.5	(NA)	Mississippi.....	FF	FF
South Atlantic Division.....	BB	(NA)	West South Central Division.....	AA	AA
North Carolina.....	BB	(NA)	Texas.....	AA	AA
East South Central Division.....	GG	(NA)	West Region.....	BB	BB
Kentucky.....	GG	(NA)	Pacific Division.....	BB	BB
Tennessee.....	BB	(NA)	California.....	BB	BB
West South Central Division.....	AA	(NA)			
Arkansas.....	AA	(NA)			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
NEEDLES, PINS, FASTENERS (EXCEPT SLIDE), AND SIMILAR NOTIONS (39642)			NEEDLES, PINS, FASTENERS (EXCEPT SLIDE), AND SIMILAR NOTIONS (39642)—Continued		
United States.....	265.7	153.8	North Central Region--Continued		
Northeast Region.....	184.6	106.2	West North Central Division.....	EE	EE
New England Division.....	134.9	81.0	Nebraska.....	EE	EE
New Hampshire.....	BB	(NA)	South Region.....	44.0	FF
Massachusetts.....	FF	EE	South Atlantic Division.....	FF	EE
Rhode Island.....	24.3	CC	North Carolina.....	AA	AA
Connecticut.....	86.7	56.8	South Carolina.....	CC	CC
Middle Atlantic Division.....	49.7	25.2	Georgia.....	FF	CC
New York.....	21.1	11.1	East South Central Division.....	EE	CC
New Jersey.....	EE	CC	Kentucky.....	CC	BB
Pennsylvania.....	CC	BB	Tennessee.....	CC	BB
North Central Region.....	32.6	23.3	West Region.....	4.5	BB
East North Central Division.....	EE	EE	Pacific Division.....	BB	BB
Illinois.....	EE	CC	California.....	BB	BB
Wisconsin.....	BB	AA			

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

BB.....\$2.0 to \$4.9

CC.....\$5.0 to \$9.9

EE.....\$10.0 to \$19.9

FF.....\$20.0 to \$49.9

GG.....\$50.0 and over

(NA) Not available.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
39510	Pens, mechanical pencils, and penpoints <sup>2</sup> .....	311.7	254.2	243.9	248.8	225.5	210.8	177.7	147.2
3952	Lead pencils, office and art goods.....	174.3	147.4	143.2	142.6	133.8	133.2	107.5	89.4
39521	Lead pencils and crayons.....	63.1	72.7	67.9	80.0	75.5	73.6	65.3	65.3
39522	Artists' materials.....	101.4	74.4	74.4	59.7	54.2	53.8	40.3	24.1
39520	Lead pencils and art goods, n.s.k.....	9.8	(.3)	(.9)	2.9	(4.1)	5.8	1.9	-
39530	Hand stamps, stencils, and other marking devices <sup>2</sup> .....	163.4	177.7	173.2	156.0	124.2	(NA)	(NA)	(NA)
3955	Carbon paper and inked ribbons.....	317.5	262.3	256.7	251.2	221.9	221.5	161.3	119.1
39551	Inked ribbons, all types.....	150.0	262.3	256.7	251.2	221.9	221.5	161.3	119.1
39552	Carbon paper, stencil paper, etc.....	153.8							
39550	Carbon paper, stencil paper, and inked ribbons.....	13.7							
39610	Costume jewelry and novelties, except precious metal.....	441.7	479.6	450.9	421.8	396.7	338.2	256.7	236.2
39620	Feathers, plumes, and artificial flowers.....	101.8	70.6	81.1	100.6	96.2	86.3	59.3	59.5
39630	Buttons and parts (except of precious or semiprecious metals or stone).....	103.1	114.1	96.7	103.0	101.0	83.8	81.9	70.8
3964	Needles, pins, and fasteners.....	553.6	508.3	471.9	454.8	436.2	381.4	315.2	220.8
39641	Zipper and slide fasteners.....	254.5	237.0	226.0	187.6	213.1	201.5	143.2	87.2
39642	Needles, fasteners (except slide), and similar notions.....	265.7	259.3	231.3	246.9	205.2	153.8	155.7	112.0
39640	Needles, pins, and fasteners, n.s.k.....	33.4	(12.0)	(14.6)	20.3	(17.9)	26.1	16.3	21.6

- Represents zero. (NA) Not available.

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>Broad-tipped markers, formerly in industry 3953 (product code 39530 43), are now included in industry 3951 (product code 3953 43). This product code shift out of industry 3953 represents approximately 11 percent of the total 1967 shipments of products in 3953. The product code shift into industry 3951 is approximately 8 percent of the total 1967 shipments of products in 3951.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measura	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	(Materials consumed data are not applicable for industries 3951, 3952, 3953, 3955, 3961, and 3962.)					
	INDUSTRY 3963.--BUTTONS					
	Materials, components, parts, containers, and supplies, total. ....		(X)	36.7	(X)	31.0
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	1.8	.7	1.4	.4
331020	Alloy steel.....	..do.....	(NA)	.7	.7	.6
331031	Stainless steel.....	..do.....				
335001	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	(D)	(NA)	.4
335105	Copper and copper-base alloy.....	..do.....	8.2	3.0	(NA)	3.5
970099	All other materials, and components, parts, containers, and supplies consumed.....		(X)	<sup>1</sup> 17.7	(X)	15.6
976000	Materials, etc., n.s.k. <sup>2</sup> .....		(X)	14.6	(X)	10.5
	INDUSTRY 3964.--NEEDLES, PINS, AND FASTENERS					
	Materials, components, parts, containers, and supplies, total. ....		(X)	206.9	(X)	153.6
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	36.3	11.5	29.7	8.7
331020	Alloy steel.....	..do.....	1.6	1.5	10.8	2.9
	Stainless steel:					
331033	Sheet and strip.....	..do.....				
331050	All other stainless steel mill shapes and forms.....	..do.....	1.6	3.5	1.3	2.1
335001	Aluminum and aluminum-base alloy.....	Million lb....	13.7	8.1	12.4	6.9
335105	Copper and copper-base alloy.....	..do.....	31.5	23.4	21.7	15.8
970099	All other materials and components, parts, containers, and supplies consumed.....		(X)	121.1	(X)	95.4
976000	Materials, etc., n.s.k. <sup>2</sup> .....		(X)	37.8	(X)	21.8

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost of materials for those items indicated by the symbol (D).<sup>2</sup>This line represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.

TABLE 7B. Fuels and Electric Energy Consumed: 1971

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost (million dollars)
INDUSTRY 3951.--PENS AND MECHANICAL PENCILS				
	Purchased fuels and electric energy.....		(X)	2.1
	Purchased fuels, total.....		(X)	.3
121005	Coal.....	1,000 s. tons....	-	-
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	13.7	.1
291141	Distillate.....	...do.....	4.7	(Z)
291151	Residual.....	...do.....	9.1	.1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.3	.2
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.1
960012	Purchased electric energy.....	Million kWh.....	123.2	1.8
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.2	-
INDUSTRY 3952.--LEAD PENCILS AND ART GOODS				
	Purchased fuels and electric energy.....		(X)	2.0
	Purchased fuels, total.....		(X)	.9
121005	Coal.....	1,000 s. tons....	2.9	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	50.9	.2
291141	Distillate.....	...do.....	37.0	.2
291151	Residual.....	...do.....	13.9	.1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.3	.3
960011	Other fuels.....		(X)	-
975000	Fuels, n.s.k.....		(X)	.3
960012	Purchased electric energy.....	Million kWh.....	76.5	1.1
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.5	-
INDUSTRY 3953.--MARKING DEVICES <sup>1</sup>				
	Purchased fuels and electric energy.....		(X)	2.3
	Purchased fuels, total.....		(X)	.7
121005	Coal.....	1,000 s. tons....	.5	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	9.3	(Z)
291141	Distillate.....	...do.....	8.2	(Z)
291151	Residual.....	...do.....	1.1	(Z)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.2	.1
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.5
960012	Purchased electric energy.....	Million kWh.....	81.8	1.6
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.4	-
INDUSTRY 3961.--COSTUME JEWELRY				
	Purchased fuels and electric energy.....		(X)	3.1
	Purchased fuels, total.....		(X)	.9
121005	Coal.....	1,000 s. tons....	-	-
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	55.8	.2
291141	Distillate.....	...do.....	30.3	.1
291151	Residual.....	...do.....	25.6	.1
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.3	.2
960011	Other fuels.....		(X)	.1
975000	Fuels, n.s.k.....		(X)	.4
960012	Purchased electric energy.....	Million kWh.....	147.3	2.2
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.6	-

See footnotes at end of table.



TABLE 7B. Fuels and Electric Energy Consumed: 1971—Continued

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost  (million dollars)
	INDUSTRY 3962.--ARTIFICIAL FLOWERS			
	Purchased fuels and electric energy.....		(X)	.5
	Purchased fuels, total.....		(X)	.2
121005	Coal.....	1,000 s. tons....	.8	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	9.6	.1
291141	Distillate.....	...do.....	9.6	.1
291151	Residual.....	...do.....	-	-
131300	Natural gas.....	Billion ft <sup>3</sup> .....	(Z)	(Z)
960011	Other fuels.....		(X)	(Z)
975000	Fuels, n.s.k.....		(X)	.1
960012	Purchased electric energy.....	Million kWh.....	21.2	.3
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.1	-
	INDUSTRY 3964.--NEEDLES, PINS, AND FASTENERS			
	Purchased fuels and electric energy.....		(X)	4.8
	Purchased fuels, total.....		(X)	1.4
121005	Coal.....	1,000 s. tons....	.2	(Z)
331212	Coke.....	...do.....	-	-
	Fuel oil, total.....	1,000 bbl (42 gal)	183.5	.7
291141	Distillate.....	...do.....	45.1	.2
291151	Residual.....	...do.....	138.4	.5
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.6	.4
960011	Other fuels.....		(X)	.1
975000	Fuels, n.s.k.....		(X)	.2
960012	Purchased electric energy.....	Million kWh.....	251.2	3.4
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	-
	Total energy used for heat and power.....	Bil. kWh equiv....	.9	-

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 96011, other fuels.

- Represents zero. (X) Not applicable. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.

<sup>1</sup>Broad-tipped markers, formerly in industry 3953 (product code 39530 43), are now included in industry 3951 (product code 39510 43). This product code shift out of industry 3953 represents approximately 11 percent of the total 1967 shipments of products in 3953. The product code shift into industry 3951 is approximately 8 percent of the total 1967 shipments of products in 3951.



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# Miscellaneous Manufactures

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# EXPLANATORY TEXT

## MISCELLANEOUS MANUFACTURES

This report shows 1972 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

3991—Brooms and Brushes

3993—Signs and Advertising Displays

3995—Burial Caskets

3996—Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, N.E.C.\*

3999—Manufacturing Industries, N.E.C.

The general statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect, not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5B which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

## INDUSTRY 3991.—BROOMS AND BRUSHES

This industry comprises establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes. For a detailed list of products of industry 3991, refer to table 6A, product codes 39911 13 to 39913 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Brooms and Brushes Industry in 1972 totaled \$438 million. This included

shipments of brooms and brushes (primary products) valued at \$367 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly resales) of \$39 million.

Shipments of brooms and brushes (primary products) in 1972 represented 92 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 90 percent. Secondary products shipped by this industry in 1972 consisted mainly of miscellaneous plastic products at \$16 million.

Shipments of brooms and brushes (primary products) from establishments classified in industry 3991 in 1972 represented 94 percent (coverage ratio) of these products valued at \$392 million shipped by all industries. In 1967, the coverage ratio was 92 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3991, these establishments accounted for 7 percent of value of shipments.

## INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS

This industry comprises establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in industry 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and lighting fixtures in industry 3642. For a detailed list of products of industry 3993, refer to table 6A, product codes 39931 11 to 39933 11.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Signs and Advertising Displays Industry in 1972 totaled \$1,198 million. This included shipments of signs and advertising displays (primary products) valued at \$1,060 million, shipments of other products (secondary products) valued at \$22 million, and miscellaneous receipts (mainly resales) of \$117 million.

Shipments of signs and advertising displays (primary products) in 1972 represented 98 percent (specialization ratio) of

\*Note that the "short title" for this industry is used throughout the report.

the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 97 percent.

Shipments of signs and advertising displays (primary products) from establishments classified in industry 3993 in 1972 represented 97 percent (coverage ratio) of these products valued at \$1,089 million shipped by all industries. In 1967, the coverage ratio was 95 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3993, these establishments accounted for 22 percent of value of shipments.

#### **INDUSTRY 3995.—BURIAL CASKETS**

This industry comprises establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material except concrete (industry 3272); morticians' supplies and accessories, such as gloves and slippers; and morticians' paraphernalia and equipment. For a detailed list of products of industry 3995, refer to table 6A, product codes 39951 13 to 39953 92.

The code number and title for this industry were changed in the 1972 revision of the SIC manual from the previous classification system. In 1967, this industry was SIC 3994, Morticians' Goods. Also, the content of the industry has been changed slightly. Data for embalming chemicals are now included in industry 2899, Chemical Preparations, N.E.C.; burial garments in industry 2389, Apparel and Accessories, N.E.C.; and innerliners, sold as such, in industry 2399, Fabricated Textile Products, N.E.C.

Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the project, such as burial garments in SIC Major Group 23.

Value of shipments and other receipts of the Burial Caskets Industry in 1972 totaled \$392 million. This included shipments of burial caskets (primary products) valued at \$382 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly resales) of \$7 million.

Shipments of burial caskets (primary products) in 1972 represented 99 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 95 percent.

Shipments of burial caskets (primary products) from establishments classified in industry 3995 in 1972 represented 99 percent (coverage ratio) of these products valued at \$388

million shipped by all industries. In 1967, the coverage ratio was 98 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3995, these establishments accounted for 8 percent of value of shipments.

#### **INDUSTRY 3996.—HARD-SURFACE FLOOR COVERINGS (Short Title)**

This industry comprises establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard-surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile, in industry 2499. For a detailed list of products of industry 3996, refer to table 6A, product codes 39960 11 to 39960 65.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number and title are also the same.

Value of shipments and other receipts of the Hard-Surface Floor Coverings Industry in 1972 totaled \$342 million. This included shipments of hard-surface floor coverings (primary products) valued at \$298 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly resales) of \$6 million.

Shipments of hard-surface floor coverings (primary products) in 1972 represented 88 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 86 percent. Secondary products shipped by this industry in 1972 consisted mainly of asbestos products at \$20 to \$50 million.

Shipments of hard-surface floor coverings (primary products) from establishments classified in industry 3996 in 1972 represented 99 percent (coverage ratio) of these products valued at \$300 million shipped by all industries. In 1967, the coverage ratio was 97 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed



from industry averages. For industry 3996, these establishments accounted for under 1 percent of value of shipments.

**INDUSTRY 3999.—MANUFACTURING INDUSTRIES,  
N.E.C.**

This industry comprises establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barbershop equipment; hairwork; tobacco pipes and cigarette holders; coin-operated amusement machines; matches; candles; lampshades; dressed and dyed furs; umbrellas; parasols and canes; and other articles, not elsewhere classified. For a detailed list of products of industry 3999, refer to table 6A, product codes 39991 11 to 39999 98.

The 1972 definition of this industry is the same as that used in the 1967 classification system. The SIC number is also the same.

Value of shipments and other receipts of the Manufacturing Industries, N.E.C., Industry in 1972 totaled \$1,540 million. This included shipments of manufacturing industries, not elsewhere classified, (primary products) valued at \$1,336 million,

shipments of other products (secondary products) valued at \$126 million, and miscellaneous receipts (mainly resales) of \$78 million.

Shipments of manufacturing industries not elsewhere classified (primary products) in 1972 represented 91 percent (specialization ratio) of the industry's total product shipments (primary and secondary). The industry specialization ratio in 1967 was 94 percent.

Shipments of manufacturing industries not elsewhere classified (primary products) from establishments classified in industry 3999 in 1972 represented 92 percent (coverage ratio) of these products valued at \$1,455 million shipped by all industries. In 1967, the coverage ratio was 90 percent.

As stated in the introduction, small establishments generally with less than 10 employees were excluded from the mail portion of the census. For these establishments (and a small number of establishments whose reports were not received at the time the data were tabulated), key data on payrolls and sales were obtained from administrative records of other Government agencies and the remaining statistics constructed from industry averages. For industry 3999, these establishments accounted for 18 percent of value of shipments.



TABLE 1A. General Statistics: 1958 to 1972

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expenditures, new	Gross value of fixed assets	End-of-year inventories	Specialization ratio	Coverage ratio
	Total	With 20 employees or more	Number	Payroll	Number	Man-hours	Wages								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(percent)	(percent)
INDUSTRY 3991.--BROOMS AND BRUSHES															
1972 Census.....	450	166	17.5	118.5	14.2	26.8	79.5	235.5	204.9	438.3	13.0	(NA)	98.5	92	94
1971 ASM .....	(NA)	(NA)	16.8	101.7	13.2	24.8	66.8	212.0	178.0	385.2	11.2	121.3	85.4	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	18.3	101.2	14.7	27.7	69.2	212.9	196.8	408.6	18.4	115.2	79.4	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	18.9	99.9	15.5	27.5	69.7	209.5	192.5	406.4	*11.9	107.8	71.2	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	18.3	93.6	15.1	27.3	65.8	212.8	184.5	393.7	6.6	99.4	74.6	(NA)	(NA)
1967 Census.....	533	169	17.3	88.3	14.1	26.8	61.3	192.9	177.0	371.8	10.7	102.8	69.5	90	92
1966 ASM .....	(NA)	(NA)	17.0	85.3	13.7	27.7	55.5	195.1	185.4	374.4	9.2	(NA)	82.2	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	17.3	84.2	14.2	27.5	54.1	192.7	181.5	372.3	6.2	(NA)	76.9	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	17.2	81.7	13.7	26.9	51.9	181.7	169.5	350.6	*7.0	85.1	69.2	(NA)	(NA)
1963 Census.....	643	167	16.6	73.6	13.4	25.8	49.5	167.9	153.6	321.1	4.4	81.4	66.4	89	93
1962 ASM .....	(NA)	(NA)	16.6	74.4	13.5	25.7	49.4	166.6	144.8	306.9	5.2	77.0	72.2	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	16.6	71.0	13.4	25.2	46.8	147.9	143.7	292.9	3.6	(NA)	68.8	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	16.9	70.6	13.6	26.2	47.1	150.2	143.6	291.3	*6.5	(NA)	70.5	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	17.6	70.1	14.3	27.3	47.7	155.3	146.4	298.9	*11.5	(NA)	66.0	(NA)	(NA)
1958 Census .....	723	179	17.1	64.6	13.6	25.6	42.9	137.5	137.1	275.7	4.0	(NA)	62.8	89	94
INDUSTRY 3993.--SIGNS AND ADVERTISING DISPLAYS															
1972 Census .....	3,287	637	49.8	415.9	37.5	68.3	261.9	760.8	447.0	1,198.0	29.8	(NA)	126.0	98	97
1971 ASM .....	(NA)	(NA)	46.0	339.3	34.1	62.7	215.8	606.0	369.4	971.8	16.3	203.6	106.7	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	48.9	347.9	36.3	69.7	219.1	598.5	386.3	987.0	28.5	200.3	97.5	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	52.7	356.9	41.3	78.7	235.7	617.5	401.9	1,022.6	18.7	231.2	107.1	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	47.7	315.8	36.4	70.7	204.9	544.5	327.8	870.1	25.8	213.5	84.3	(NA)	(NA)
1967 Census.....	3,188	623	47.8	309.3	36.8	70.6	198.8	546.6	330.8	875.1	23.0	196.9	87.3	97	95
1966 ASM .....	(NA)	(NA)	48.3	294.2	40.6	76.3	202.3	495.9	359.4	818.6	20.4	(NA)	91.5	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	46.2	269.8	39.1	71.4	179.4	444.3	300.1	742.9	19.4	(NA)	68.7	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	43.2	259.7	32.8	65.3	171.2	455.7	263.8	713.1	*12.7	145.2	72.5	(NA)	(NA)
1963 Census.....	3,206	570	43.5	242.6	33.1	64.8	163.5	407.5	243.8	646.8	15.0	129.0	69.1	96	95
1962 ASM .....	(NA)	(NA)	41.3	223.8	31.4	62.2	149.4	378.2	238.2	609.0	*9.4	120.9	62.4	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	39.8	204.4	30.8	60.3	137.8	336.5	222.6	557.1	*17.8	(NA)	52.5	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	39.9	203.1	31.0	60.8	139.0	331.1	211.6	539.0	*11.0	(NA)	54.9	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	38.7	188.3	30.3	57.9	128.5	307.2	196.0	501.4	*8.6	(NA)	51.3	(NA)	(NA)
1958 Census .....	2,725	460	36.2	173.0	27.9	53.6	118.9	281.2	179.1	457.0	13.5	(NA)	48.2	95	95
INDUSTRY 3995.--BURIAL CASKETS															
1972 Census.....	515	189	14.8	109.3	11.8	22.6	72.0	210.3	183.7	391.9	8.8	(NA)	57.9	99	99
1971 ASM .....	(NA)	(NA)	16.2	108.8	12.4	24.1	71.3	199.7	183.7	377.2	9.7	117.7	68.3	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	16.7	106.8	13.1	27.2	72.2	185.3	168.8	355.0	9.7	108.9	56.8	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	16.3	103.9	13.2	27.0	72.1	178.5	174.8	351.9	6.8	84.1	58.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	16.3	96.2	13.3	27.2	65.3	173.1	157.2	329.9	4.3	86.0	53.9	(NA)	(NA)
1967 Census.....	563	211	16.1	90.9	13.0	26.4	60.6	161.7	144.2	306.1	4.2	85.7	51.4	95	98
1966 ASM .....	(NA)	(NA)	17.0	90.0	12.6	25.8	57.9	182.4	140.2	319.1	7.7	(NA)	50.3	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	17.0	89.7	13.4	27.4	59.1	173.0	128.7	302.6	6.7	(NA)	44.5	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	16.8	85.9	12.6	26.6	56.0	150.4	131.0	281.9	6.8	(NA)	47.9	(NA)	(NA)
1963 Census.....	617	224	17.3	86.2	13.5	27.5	58.4	158.4	132.7	290.0	5.5	(NA)	46.4	95	98
1962 ASM .....	(NA)	(NA)	17.0	82.1	13.6	29.3	54.8	150.9	128.4	280.3	*14.1	(NA)	45.4	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	17.0	79.7	13.5	28.8	53.2	145.8	120.9	264.1	*12.5	(NA)	45.9	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	17.4	78.5	13.8	29.4	53.6	145.6	118.2	260.9	*12.4	(NA)	42.9	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	16.8	75.4	13.4	27.4	51.1	130.8	113.4	245.2	*10.9	(NA)	39.7	(NA)	(NA)
1958 Census .....	592	219	17.4	73.7	13.8	27.8	50.6	128.9	109.9	237.8	5.8	(NA)	40.3	95	99
INDUSTRY 3996.--HARD-SURFACE FLOOR COVERINGS															
1972 Census.....	20	11	5.8	59.4	4.6	9.7	44.7	212.0	135.2	342.3	14.0	(NA)	49.7	88	99
1971 ASM .....	(NA)	(NA)	5.2	48.6	4.1	8.6	36.2	159.1	100.5	258.8	20.7	169.5	41.7	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	5.4	46.8	4.2	9.0	35.0	139.5	97.9	232.6	14.5	151.0	45.8	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	5.5	45.6	4.4	9.1	34.4	132.7	101.7	235.1	10.5	155.1	41.4	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	5.8	43.9	4.6	9.4	33.1	140.2	90.6	230.3	7.7	146.2	41.8	(NA)	(NA)
1967 Census.....	20	12	6.0	43.5	4.9	10.1	33.2	133.4	90.4	221.7	20.6	144.3	41.8	86	97
1966 ASM .....	(NA)	(NA)	6.3	44.8	5.1	10.8	34.4	135.2	100.8	230.3	9.3	(NA)	39.9	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	6.2	42.3	5.0	10.4	32.4	139.2	89.2	227.8	10.0	(NA)	32.4	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	6.3	42.3	5.1	10.7	32.3	132.5	86.4	217.6	6.8	115.4	31.0	(NA)	(NA)
1963 Census.....	16	13	6.2	39.0	5.0	10.1	29.5	118.8	80.7	204.1	4.4	110.8	29.9	82	98
1962 ASM .....	(NA)	(NA)	6.4	39.4	5.3	11.0	30.6	110.7	82.8	191.3	5.0	108.8	34.7	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	6.6	38.2	5.3	10.8	29.4	96.9	79.5	179.7	5.7	(NA)	32.9	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	7.1	39.7	5.8	11.8	31.1	96.1	83.9	183.8	7.8	(NA)	36.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	8.0	44.8	6.8	14.3	36.3	110.9	97.5	206.5	*9.5	(NA)	43.0	(NA)	(NA)
1958 Census .....	14	14	8.0	41.9	6.7	14.0	34.1	93.1	87.1	181.6	5.4	(NA)	40.1	84	98

See footnotes at end of table.

TABLE 1A. General Statistics: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year <sup>1</sup>	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials, fuels, etc.	Value of industry shipments	Capital expend- itures, new	Gross value of fixed assets	End-of- year inven- tories	Special- ization ratio	Cover- age ratio
	Total	With 20 employ- ees or more	Number	Payroll	Number	Man- hours	Wagas								
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)								
	INDUSTRY 3999.--MANUFACTURING INDUSTRIES, N.E.C.														
1972 Census.....	3,368	615	65.3	432.1	51.6	94.9	281.1	900.3	654.0	1,539.9	40.3	(NA)	261.9	91	92
1971 ASM .....	(NA)	(NA)	56.9	344.4	44.3	82.1	230.0	694.0	487.1	1,176.2	30.8	*326.0	193.9	(NA)	(NA)
1970 ASM .....	(NA)	(NA)	56.6	334.4	45.0	83.9	221.2	651.0	457.6	1,102.1	24.7	*311.0	183.1	(NA)	(NA)
1969 ASM .....	(NA)	(NA)	59.8	329.6	49.0	91.7	227.4	606.6	456.8	1,061.3	30.6	286.6	169.6	(NA)	(NA)
1968 ASM .....	(NA)	(NA)	57.3	308.9	47.6	89.3	215.4	585.3	424.6	996.5	17.4	261.6	159.1	(NA)	(NA)
1967 Census.....	2,211	586	56.6	284.4	46.6	88.1	197.2	540.6	408.7	943.3	23.5	255.2	139.3	94	90
1966 ASM .....	(NA)	(NA)	46.9	223.6	38.2	75.0	158.7	408.8	352.8	757.0	*17.1	(NA)	102.3	(NA)	(NA)
1965 ASM .....	(NA)	(NA)	48.9	230.3	40.1	79.0	165.1	424.8	350.4	773.2	17.1	(NA)	101.1	(NA)	(NA)
1964 ASM .....	(NA)	(NA)	48.0	221.6	39.0	79.2	158.0	404.1	325.5	728.0	*10.7	(NA)	97.4	(NA)	(NA)
1963 Census.....	2,108	486	46.7	207.3	38.5	74.6	150.0	384.0	305.8	684.2	13.5	(NA)	98.6	(NA)	(NA)
1962 ASM .....	(NA)	(NA)	42.9	188.8	34.7	67.5	132.5	353.9	298.6	650.2	*13.5	(NA)	100.1	(NA)	(NA)
1961 ASM .....	(NA)	(NA)	42.6	177.0	34.8	69.0	126.0	307.7	265.7	578.2	*9.3	(NA)	92.0	(NA)	(NA)
1960 ASM .....	(NA)	(NA)	43.1	177.4	35.1	69.5	125.4	314.9	268.1	583.4	*11.0	(NA)	97.2	(NA)	(NA)
1959 ASM .....	(NA)	(NA)	46.4	180.7	38.1	72.9	130.2	311.1	264.5	580.7	*13.7	(NA)	98.7	(NA)	(NA)
1958 Census .....	1,898	433	44.4	177.2	36.4	69.4	127.9	311.1	256.6	557.4	10.2	(NA)	100.4	(NA)	(NA)

Note: The relationship of establishments to companies is as follows: A company, as the term is used in the census of manufactures, is a business organization consisting of one establishment or more under common ownership or control. The number of companies for each industry is shown below for the last 3 years in which censuses were conducted.

	Industry 3991	Industry 3993	Industry 3995	Industry 3996	Industry 3999
1972.....	430	3,221	474	18	3,309
1967.....	516	3,159	527	18	2,165
1963.....	628	3,165	581	13	(NA)

(NA) Not available. \*These figures either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, these estimates may be of limited reliability.

<sup>1</sup>For intercensal years, annual survey of manufactures (ASM) data are shown. These data are estimates based on a representative sample of establishments canvassed annually and may differ from the results of a complete canvass of all manufacturing establishments. The percentage standard errors are shown in the Annual Survey of Manufactures volume. Data prior to 1958 appear in Volume II, 1963 Census of Manufactures, in table 1 of the chapter devoted to this industry.

TABLE 1B. Selected Operating Ratios: 1958 to 1972

(See appendix, Explanation of Terms)

Year	Payroll per employee	Assets per employee	Production worker as percent of total employment	Annual man-hours of production workers	Average hourly earnings of production workers	Cost of materials per dollar of shipments	Cost of materials and payrolls per dollar shipments	Assets per dollar of shipments	Value added per employee	Payrolls as percent of value added	Value added per man-hour of production worker
	(dollars)	(dollars)	(percent)	(number)	(dollars)	(dollars)	(dollars)	(dollars)	(dollars)	(percent)	(dollars)
INDUSTRY 3991.--BROOMS AND BRUSHES											
1972 Census.....	6,771	(NA)	81	1,887	2.97	.47	.74	(NA)	13,457	50	8.79
1971 ASM.....	6,054	7,220	79	1,879	2.69	.46	.73	.31	12,619	48	8.55
1970 ASM.....	5,530	6,300	80	1,884	2.50	.48	.73	.28	11,634	48	7.69
1969 ASM.....	5,286	5,700	82	1,774	2.54	.47	.72	.27	11,085	48	7.62
1968 ASM.....	5,115	5,430	83	1,808	2.41	.47	.71	.25	11,628	44	7.79
1967 Census.....	5,110	5,940	82	1,892	2.29	.48	.71	.28	11,160	46	7.21
1966 ASM.....	5,019	(NA)	80	2,029	2.00	.50	.72	(NA)	11,474	44	7.04
1965 ASM.....	4,864	(NA)	82	1,941	1.97	.49	.71	(NA)	11,126	44	7.01
1964 ASM.....	4,744	4,950	80	1,961	1.93	.48	.72	.24	10,552	45	6.75
1963 Census.....	4,425	4,900	81	1,921	1.92	.48	.71	.25	10,090	44	6.51
1962 ASM.....	4,471	4,640	81	1,896	1.93	.47	.71	.25	10,019	45	6.49
1961 ASM.....	4,272	(NA)	81	1,875	1.86	.49	.73	(NA)	8,902	48	5.88
1960 ASM.....	4,182	(NA)	81	1,926	1.79	.49	.74	(NA)	8,904	47	5.73
1959 ASM.....	3,981	(NA)	81	1,909	1.75	.49	.72	(NA)	8,817	45	5.70
1958 Census.....	3,780	(NA)	79	1,888	1.68	.50	.73	(NA)	8,049	47	5.37

See footnotes at end of table.



TABLE 1B. Selected Operating Ratios: 1958 to 1972—Continued

(See appendix, Explanation of Terms)

Year	Payroll per employee  (dollars)	Assets per employee  (dollars)	Production worker as percent of total employment  (percent)	Annual man-hours of production workers  (number)	Average hourly earnings of production workers  (dollars)	Cost of materials per dollar of shipments  (dollars)	Cost of materials and payrolls per dollar shipments  (dollars)	Assets per dollar of shipments  (dollars)	Value added per employee  (dollars)	Payrolls as percent of value added  (percent)	Value added per man-hour of production worker  (dollars)
INDUSTRY 3993.--SIGNS AND ADVERTISING DISPLAYS											
1972 Census.....	8,351	(NA)	75	1,821	3.83	.37	.72	(NA)	15,277	55	11.14
1971 ASM.....	7,376	4,430	74	1,839	3.44	.38	.73	.21	13,174	56	9.67
1970 ASM.....	7,115	4,100	74	1,920	3.14	.39	.74	.20	12,239	58	8.59
1969 ASM.....	6,772	4,390	78	1,906	3.00	.39	.74	.23	11,717	58	7.85
1968 ASM.....	6,621	4,480	76	1,942	2.90	.38	.74	.25	11,415	58	7.70
1967 Census.....	6,465	4,120	<sup>1</sup> 77	<sup>1</sup> 1,919	2.82	.38	.73	.23	11,425	57	7.75
1966 ASM.....	6,087	(NA)	84	1,880	2.65	.44	.80	(NA)	10,262	59	6.50
1965 ASM.....	5,846	(NA)	85	1,826	2.51	.40	.77	(NA)	9,627	61	6.22
1964 ASM.....	6,018	3,360	76	1,989	2.62	.37	.73	.20	10,560	57	6.98
1963 Census.....	5,580	2,970	76	1,957	2.52	.38	.75	.20	9,372	60	6.28
1962 ASM.....	5,419	2,930	76	1,980	2.40	.39	.76	.20	9,158	59	6.08
1961 ASM.....	5,131	(NA)	77	1,957	2.29	.40	.77	(NA)	8,446	61	5.58
1960 ASM.....	5,088	(NA)	78	1,962	2.28	.39	.77	(NA)	8,294	61	5.44
1959 ASM.....	4,869	(NA)	78	1,911	2.22	.39	.77	(NA)	7,945	61	5.30
1958 Census.....	4,784	(NA)	77	1,917	2.22	.39	.77	(NA)	7,774	62	5.25
INDUSTRY 3995.--BURIAL CASKETS											
1972 Census.....	7,385	(NA)	80	1,915	3.19	.47	.75	(NA)	14,209	52	9.31
1971 ASM.....	6,716	7,270	77	1,944	2.96	.49	.78	.31	12,327	55	8.29
1970 ASM.....	6,395	6,520	78	2,076	2.65	.48	.78	.31	11,096	58	6.81
1969 ASM.....	6,374	5,160	81	2,045	2.67	.50	.79	.24	10,951	58	6.61
1968 ASM.....	5,902	5,280	82	2,045	2.40	.48	.77	.26	10,620	56	6.36
1967 Census.....	5,646	5,320	81	2,035	2.30	.47	.77	.28	10,047	56	6.13
1966 ASM.....	5,304	(NA)	75	2,042	2.24	.44	.72	(NA)	10,757	49	7.07
1965 ASM.....	5,273	(NA)	79	2,049	2.16	.43	.72	(NA)	10,175	52	6.31
1964 ASM.....	5,122	(NA)	75	2,107	2.10	.46	.77	(NA)	8,970	57	5.65
1963 Census.....	4,989	(NA)	78	2,031	2.12	.46	.75	(NA)	9,166	54	5.76
1962 ASM.....	4,831	(NA)	80	2,152	1.87	.46	.75	(NA)	8,878	54	5.15
1961 ASM.....	4,699	(NA)	80	2,136	1.85	.46	.76	(NA)	8,592	55	5.06
1960 ASM.....	4,515	(NA)	79	2,131	1.82	.45	.75	(NA)	8,366	54	4.95
1959 ASM.....	4,488	(NA)	79	2,055	1.86	.46	.77	(NA)	7,780	58	4.77
1958 Census.....	4,247	(NA)	80	2,011	1.82	.46	.77	(NA)	7,423	57	4.64
INDUSTRY 3996.--HARD-SURFACE FLOOR COVERINGS											
1972 Census.....	10,241	(NA)	79	2,109	4.61	.39	.57	(NA)	36,552	28	21.86
1971 ASM.....	9,346	32,600	79	2,098	4.21	.38	.58	.65	30,596	31	18.50
1970 ASM.....	8,667	27,960	78	2,143	3.89	.42	.62	.65	25,833	34	15.50
1969 ASM.....	8,291	28,200	80	2,068	3.78	.43	.63	.66	24,127	34	14.58
1968 ASM.....	7,569	25,210	79	2,043	3.52	.39	.58	.63	24,172	31	14.91
1967 Census.....	7,196	24,050	81	2,067	3.29	.41	.60	.65	22,061	33	13.19
1966 ASM.....	7,116	(NA)	81	2,116	3.19	.44	.63	(NA)	21,451	33	12.53
1965 ASM.....	6,852	(NA)	81	2,080	3.12	.39	.58	(NA)	22,542	30	13.38
1964 ASM.....	6,720	18,320	81	2,103	3.03	.40	.59	.53	21,027	32	12.41
1963 Census.....	6,293	17,870	80	2,037	2.92	.40	.59	.54	19,191	33	11.77
1962 ASM.....	6,110	17,000	82	2,073	2.79	.43	.64	.57	17,179	36	10.11
1961 ASM.....	5,810	(NA)	81	2,047	2.71	.44	.65	(NA)	14,745	39	8.93
1960 ASM.....	5,607	(NA)	82	2,034	2.63	.46	.67	(NA)	13,568	41	8.13
1959 ASM.....	5,567	(NA)	84	2,101	2.55	.47	.69	(NA)	13,789	40	7.78
1958 Census.....	5,241	(NA)	84	2,088	2.43	.48	.71	(NA)	11,645	45	6.64
INDUSTRY 3999.--MANUFACTURING INDUSTRIES, N.E.C.											
1972 Census.....	6,617	(NA)	79	1,839	2.96	.42	.71	(NA)	13,787	48	9.49
1971 ASM.....	6,053	5,730	78	1,853	2.80	.41	.71	.28	12,197	50	8.45
1970 ASM.....	5,908	5,500	80	1,864	2.64	.42	.72	.28	11,502	51	7.76
1969 ASM.....	5,518	4,790	82	1,992	3.27	.43	.74	.27	10,144	47	10.64
1968 ASM.....	5,391	4,570	83	2,005	3.11	.43	.74	.27	10,215	47	10.12
1967 Census.....	5,026	4,560	<sup>1</sup> 82	<sup>1</sup> 1,892	2.24	.43	.73	.27	9,555	53	6.14
1966 ASM.....	4,768	(NA)	81	1,963	2.12	.47	.76	(NA)	8,717	55	5.45
1965 ASM.....	4,710	(NA)	82	1,970	2.09	.45	.75	(NA)	8,687	54	5.38
1964 ASM.....	4,617	(NA)	81	2,031	1.99	.45	.75	(NA)	8,419	55	5.10
1963 Census.....	4,439	(NA)	82	1,938	2.01	.45	.75	(NA)	8,223	54	5.15
1962 ASM.....	4,401	(NA)	81	1,945	1.96	.46	.75	(NA)	8,249	53	5.24
1961 ASM.....	4,155	(NA)	82	1,983	1.83	.46	.77	(NA)	7,223	58	4.46
1960 ASM.....	4,116	(NA)	81	1,980	1.80	.46	.76	(NA)	7,306	56	4.53
1959 ASM.....	3,894	(NA)	82	1,513	1.79	.46	.77	(NA)	6,705	58	4.27
1958 Census.....	3,991	(NA)	82	1,907	1.84	.46	.78	(NA)	7,007	57	4.48

(NA) Not available.

<sup>1</sup>Production workers for this industry may be overstated by 1 to 2 percent. This resulted from an overestimation for the administrative record class of establishments by as much as 20 percent due to an error in the imputation process. Other data were not affected.



TABLE 2. General Statistics by Geographic Area: 1972 and 1967

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3991-- BRDDMS AND BRUSHES													
UNITED STATES. . . . .	450	166	17.5	118.5	14.2	26.8	79.5	235.5	204.9	438.3	13.0	17.3	192.9
NORTHEAST REGION . . . . .	141	65	8.0	55.0	6.4	12.1	36.5	102.9	87.5	190.9	(0)	7.6	101.0
NEW ENGLAND DIVISION . . . . .	35	19	3.5	25.6	2.8	5.2	16.9	50.5	33.4	82.8	(0)	3.8	59.0
MAINE. . . . .	2	2	88	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	88	(0)
NEW HAMPSHIRE. . . . .	1	1	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
VERMONT. . . . .	3	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
MASSACHUSETTS. . . . .	24	12	2.3	16.6	1.9	3.5	11.6	39.6	17.7	57.8	(0)	FF	(0)
CONNECTICUT. . . . .	4	2	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
MIDDLE ATLANTIC DIVISION . . . . .	106	46	4.5	29.4	3.6	6.9	19.6	52.4	54.2	108.1	(0)	3.8	42.0
NEW YORK . . . . .	58	27	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	2.5	27.4
NEW JERSEY . . . . . E1	24	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	9.9
PENNSYLVANIA . . . . .	24	8	.6	4.4	.5	.9	2.5	7.1	7.6	14.6	(0)	.5	4.6
NORTH CENTRAL REGION . . . . .	113	51	5.2	38.5	4.2	8.0	25.6	81.0	63.9	143.6	(0)	FF	(0)
EAST NORTH CENTRAL DIVISION. . . . .	87	43	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	FF	(0)
OHIO . . . . .	25	16	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	EE	(0)
ILLINOIS . . . . .	28	14	1.4	8.7	1.2	2.3	6.7	19.3	15.3	34.1	.8	1.5	15.4
MICHIGAN . . . . . E1	13	3	.2	1.4	.2	.3	1.0	3.0	3.7	7.3	.1	.2	2.3
WISCONSIN. . . . .	18	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.6	7.3
WEST NORTH CENTRAL DIVISION. . . . .	26	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	1.0	8.5
MINNESOTA. . . . . E1	6	4	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.2	2.1
IDAHO . . . . .	5	2	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	BB	(0)
NEBRASKA . . . . .	5	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
SOUTH REGION . . . . .	139	37	3.3	17.6	2.8	5.4	13.0	38.1	40.2	77.4	(0)	FF	(0)
SOUTH ATLANTIC DIVISION. . . . .	60	19	1.8	10.5	1.5	3.0	7.5	22.3	23.6	45.3	(0)	2.0	17.1
MARYLAND . . . . .	6	5	.9	5.4	.7	1.5	3.8	9.9	12.4	21.9	(0)	1.2	10.8
NORTH CAROLINA . . . . . E1	19	2	.3	1.9	.3	.6	1.3	5.4	4.0	9.5	(0)	.3	2.4
GEORGIA. . . . .	13	6	.3	1.7	.3	.5	1.3	3.7	4.0	7.6	(0)	.2	1.6
FLORIDA. . . . .	13	5	.2	1.1	.2	.3	.8	2.1	2.3	4.4	(0)	.2	1.7
EAST SOUTH CENTRAL DIVISION. . . . .	22	8	.8	4.2	.7	1.3	3.3	11.2	10.3	21.2	(0)	CC	(0)
TENNESSEE. . . . .	12	5	.6	2.9	.5	.9	2.3	7.1	7.5	14.3	(0)	.3	2.0
ALABAMA. . . . .	6	2	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	AA	(0)
WEST SOUTH CENTRAL DIVISION. . E2	57	10	.6	2.8	.5	1.0	2.2	4.6	6.3	10.9	(0)	CC	(0)
TEXAS. . . . . E2	31	6	.4	1.7	.4	.6	1.3	2.6	3.9	6.5	(0)	.5	1.9
WEST REGION. . . . . E2	57	13	1.0	7.4	.7	1.3	4.4	13.5	13.3	26.4	(0)	CC	(0)
PACIFIC DIVISION . . . . . E2	49	12	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
OREGON . . . . .	4	3	AA	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(NA)	(NA)
CALIFORNIA . . . . . E2	40	9	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	CC	(0)
3993-- SIGNS AND ADVERTISING DISPLAYS													
UNITED STATES. . . . . E2	3 287	637	49.8	415.9	37.5	68.3	261.5	760.8	447.0	1 198.0	29.8	47.8	546.6
NORTHEAST REGION . . . . . E2	920	184	13.6	114.1	10.7	19.4	72.4	207.5	118.8	325.2	(0)	15.2	162.8
NEW ENGLAND DIVISION . . . . . E1	206	37	2.9	22.6	2.2	3.9	13.9	40.8	23.0	63.5	(0)	2.6	25.9
MASSACHUSETTS. . . . . E1	95	17	1.4	12.2	1.1	1.9	7.4	20.7	11.3	31.9	(0)	1.5	16.0
RHODE ISLAND . . . . . E1	33	11	.7	4.0	.5	.9	2.6	8.0	4.1	12.0	(0)	.5	4.9
CONNECTICUT. . . . . E2	54	7	.7	4.8	.5	.8	3.0	9.5	6.2	15.6	(0)	.3	3.9
MIDDLE ATLANTIC DIVISION . . . . E2	714	147	10.7	91.4	8.5	15.5	58.5	166.7	95.8	261.7	(0)	12.6	137.0
NEW YORK . . . . . E2	423	97	6.9	57.4	5.4	9.8	36.4	104.7	63.0	166.8	(0)	8.4	91.5
NEW JERSEY . . . . . E2	139	28	1.9	16.2	1.5	2.7	10.5	30.2	16.0	46.2	(0)	2.0	20.1
PENNSYLVANIA . . . . . E1	152	22	2.0	17.9	1.6	3.0	11.6	31.8	16.9	48.7	(0)	2.2	25.3
NORTH CENTRAL REGION . . . . . E1	924	218	17.7	150.6	13.1	24.7	93.2	275.4	176.0	446.6	11.3	17.3	200.9
EAST NORTH CENTRAL DIVISION. . . E1	660	155	12.9	114.4	9.5	18.2	70.2	205.9	130.8	332.2	8.6	13.3	154.9
OHIO . . . . . E1	184	46	FF	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	3.1	35.9
INDIANA . . . . .	82	11	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	11.0
ILLINOIS . . . . . E1	194	65	5.3	48.2	3.9	7.5	29.3	83.2	52.3	134.5	2.6	5.8	69.5
MICHIGAN . . . . . E2	121	12	1.4	15.7	1.0	1.9	9.9	26.1	14.5	40.9	.8	1.7	21.0
WISCONSIN. . . . .	79	21	2.0	17.0	1.5	2.9	9.7	34.5	21.9	53.7	1.5	1.8	17.6
WEST NORTH CENTRAL DIVISION. . . E1	264	63	4.8	36.2	3.6	6.4	23.0	69.5	45.2	114.4	2.7	4.0	45.9
MINNESOTA. . . . . E1	63	18	EE	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	9.6
IDAHO . . . . .	44	8	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.9	13.4
MISSOURI . . . . . E1	84	27	1.7	12.9	1.3	2.4	8.2	22.5	16.6	39.0	1.1	1.6	15.9
NEBRASKA . . . . . E1	28	3	.2	1.6	.1	.2	1.0	2.6	1.2	3.8	.1	.2	2.4
KANSAS . . . . . E1	31	5	BB	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	4.0
SOUTH REGION . . . . . E2	858	131	10.8	82.0	8.4	14.8	53.8	169.8	83.6	251.2	6.8	8.5	90.6
SOUTH ATLANTIC DIVISION. . . . . E4	416	56	4.1	32.6	3.2	5.6	21.7	56.2	32.5	88.6	3.1	3.6	37.9
MARYLAND . . . . . E2	34	11	.6	4.9	.4	.8	3.2	7.3	3.9	11.2	(0)	.6	6.5
VIRGINIA . . . . .	41	8	.7	5.1	.6	.9	3.3	9.4	5.4	14.8	(0)	.6	4.9
NORTH CAROLINA . . . . . E6	49	8	.5	3.3	.3	.6	1.9	6.3	3.5	9.8	(0)	.3	2.6
SOUTH CAROLINA . . . . . E1	21	4	CC	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	.4	4.6
GEORGIA. . . . . E3	69	6	.5	4.0	.4	.7	2.6	7.4	5.7	13.1	(0)	.5	5.9
FLORIDA. . . . . E3	172	15	1.1	9.2	.9	1.4	6.4	14.2	9.4	23.6	(0)	1.0	10.6
EAST SOUTH CENTRAL DIVISION. . .	161	32	3.2	22.4	2.5	4.4	14.1	48.2	36.4	82.7	2.8	2.6	28.1
KENTUCKY . . . . . E1	36	6	.6	4.0	.4	.8	2.5	7.1	5.3	12.2	.6	.5	4.2
TENNESSEE. . . . .	80	21	2.1	14.8	1.6	2.8	9.5	32.0	24.9	55.2	1.1	1.7	19.7
ALABAMA. . . . . E1	30	4	.5	2.9	.4	.7	1.8	7.7	5.4	13.0	1.0	.3	3.4
WEST SOUTH CENTRAL DIVISION. . . E1	281	43	3.5	27.0	2.7	4.8	18.1	65.4	14.7	79.9	.9	2.3	24.6
ARKANSAS . . . . . E1	22	2	.2	1.7	.2	.3	1.0	3.6	2.3	5.9	(0)	.2	1.6
LOUISIANA . . . . . E4	24	4	.3	2.2	.2	.4	1.6	4.0	1.9	5.8	(0)	.2	2.4
OKLAHOMA . . . . . E1	37	4	.5	3.5	.3	.7	2.3	6.5	3.6	9.9	(0)	.3	3.2
TEXAS. . . . . E1	198	33	2.5	19.6	2.0	3.4	13.2	51.2	7.0	58.3	(0)	1.6	17.5

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3993-- SIGNS AND ADVERTISING DISPLAYS-- CONTINUED													
WEST REGION. . . . . E2	585	104	7.6	69.2	5.4	9.5	42.1	108.2	68.4	175.0	(D)	7.0	92.3
MOUNTAIN DIVISION. . . . . E2	147	24	1.6	14.0	1.1	2.2	9.1	26.0	10.3	36.3	(D)	1.2	15.8
COLORADO. . . . . E2	49	7	.5	4.2	.3	.6	2.6	7.6	3.3	10.8	(D)	.4	5.1
ARIZONA. . . . . E4	28	6	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.3
UTAH. . . . . E1	16	4	.4	4.2	.3	.6	2.7	6.7	2.0	8.7	(D)	.3	4.6
PACIFIC DIVISION. . . . . E1	438	80	6.0	55.2	4.2	7.3	33.0	82.3	58.1	138.7	(D)	5.7	76.5
WASHINGTON. . . . . E2	62	13	.7	7.1	.5	.9	4.3	11.1	4.6	15.8	(D)	.6	7.1
OREGON. . . . . E2	41	9	.5	4.3	.3	.6	2.8	8.1	4.0	11.8	(D)	.4	5.4
CALIFORNIA. . . . . E1	322	57	4.8	43.4	3.3	5.7	25.7	62.3	49.1	109.9	(D)	4.7	63.5
3995-- BURIAL CASKETS													
UNITED STATES. . . . .	515	189	14.8	109.3	11.8	22.6	72.0	210.3	183.7	391.9	8.8	16.1	161.7
NORTHEAST REGION. . . . .	105	39	3.3	25.8	2.7	5.4	18.1	45.9	39.2	84.1	(D)	(NA)	(NA)
NEW ENGLAND DIVISION. . . . .	32	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW HAMPSHIRE. . . . .	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . .	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MIDDLE ATLANTIC DIVISION. . . . .	73	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NEW YORK. . . . . E1	31	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PENNSYLVANIA. . . . .	34	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CENTRAL REGION. . . . .	166	63	6.0	47.9	4.6	8.5	29.7	106.5	68.5	174.7	4.4	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	119	48	5.1	42.1	3.9	7.2	25.8	96.4	56.5	152.6	4.1	(NA)	(NA)
OHIO. . . . .	34	11	1.1	8.6	.8	1.6	5.9	15.3	9.4	24.7	.5	(NA)	(NA)
INDIANA. . . . .	31	17	2.3	20.2	1.7	3.1	11.1	56.8	25.9	82.9	2.8	(NA)	(NA)
ILLINOIS. . . . . E1	27	12	1.2	9.9	1.0	1.8	6.7	17.4	14.8	31.9	.7	(NA)	(NA)
MICHIGAN. . . . . E3	19	4	.3	2.2	.2	.4	1.4	4.4	3.8	8.1	.1	(NA)	(NA)
WISCONSIN. . . . .	8	4	.2	1.3	.1	.2	.7	2.5	2.6	5.1	.1	(NA)	(NA)
WEST NORTH CENTRAL DIVISION. . . . . E1	47	15	.9	5.8	.7	1.3	3.9	10.1	12.1	22.2	.4	(NA)	(NA)
MISSOURI. . . . .	21	7	.5	3.0	.5	.8	2.4	5.6	6.7	12.2	.2	(NA)	(NA)
SOUTH REGION. . . . .	170	60	4.2	26.7	3.5	6.7	17.6	42.9	59.2	101.1	2.1	(NA)	(NA)
SOUTH ATLANTIC DIVISION. . . . . E1	65	18	1.4	9.1	1.2	2.2	5.7	15.5	16.6	32.0	.6	(NA)	(NA)
VIRGINIA. . . . .	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
NORTH CAROLINA. . . . . E1	15	6	.3	2.1	.3	.6	1.4	3.4	5.2	8.6	(D)	(NA)	(NA)
SOUTH CAROLINA. . . . .	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
GEORGIA. . . . .	11	4	.4	2.7	.3	.7	1.5	4.2	4.0	8.1	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	57	24	1.9	11.4	1.5	3.0	8.3	17.0	28.1	44.3	1.3	(NA)	(NA)
KENTUCKY. . . . .	9	2	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TENNESSEE. . . . .	29	13	1.1	7.0	.9	1.8	5.2	9.5	16.6	25.5	(D)	(NA)	(NA)
ALABAMA. . . . .	14	6	.3	1.5	.2	.5	1.1	2.8	3.9	6.6	.2	(NA)	(NA)
MISSISSIPPI. . . . .	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
WEST SOUTH CENTRAL DIVISION. . . . . E1	48	18	1.0	6.2	.8	1.5	3.6	10.4	14.5	24.8	.2	(NA)	(NA)
ARKANSAS. . . . .	7	5	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LOUISIANA. . . . . E3	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
TEXAS. . . . . E1	24	10	.5	3.5	.3	.6	1.8	6.6	8.1	14.6	.1	(NA)	(NA)
WEST REGION. . . . . E1	74	27	1.3	9.0	1.0	2.0	6.6	15.1	16.9	32.0	(D)	(NA)	(NA)
MOUNTAIN DIVISION. . . . . E2	14	2	.2	1.1	.1	.2	.8	1.6	2.4	4.1	(D)	(NA)	(NA)
PACIFIC DIVISION. . . . . E1	60	25	1.1	7.8	.9	1.8	5.8	13.4	14.4	27.9	(D)	(NA)	(NA)
WASHINGTON. . . . .	9	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
CALIFORNIA. . . . . E1	46	19	.9	6.1	.7	1.4	4.4	10.6	11.5	22.2	(D)	(NA)	(NA)
3996-- HARD SURFACE FLOOR COVERINGS													
UNITED STATES. . . . .	20	11	5.8	59.4	4.6	9.7	44.7	212.0	135.2	342.3	14.0	(NA)	(NA)
NORTHEAST REGION. . . . .	7	6	5.2	54.6	4.1	8.8	41.5	200.3	124.3	319.6	(D)	5.9	130.5
NEW ENGLAND DIVISION. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
MASSACHUSETTS. . . . .	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	88	(D)
MIDDLE ATLANTIC DIVISION. . . . .	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
NEW JERSEY. . . . .	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
PENNSYLVANIA. . . . .	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	105.8
NORTH CENTRAL REGION. . . . .	5	1	.2	1.5	.1	.2	.9	2.7	4.4	7.0	(D)	(NA)	(NA)
EAST NORTH CENTRAL DIVISION. . . . .	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
SOUTH REGION. . . . .	4	4	.5	3.2	.3	.7	2.2	8.5	6.3	14.9	(D)	(NA)	(NA)
EAST SOUTH CENTRAL DIVISION. . . . .	4	4	.5	3.2	.3	.7	2.2	8.5	6.3	14.9	(D)	(NA)	(NA)
ALABAMA. . . . .	3	3	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3999-- MANUFACTURING INDUSTRIES, NEC													
UNITED STATES. . . . . E1	3 368	615	65.3	432.1	51.6	94.9	281.1	900.3	654.0	1 539.9	40.3	(NA)	(NA)
NORTHEAST REGION. . . . . E1	1 420	307	31.3	216.9	24.2	44.9	142.3	435.9	338.3	771.8	(D)	29.0	286.4
NEW ENGLAND DIVISION. . . . . E1	269	48	4.8	31.6	3.8	6.9	21.0	64.0	51.1	114.6	(D)	4.9	53.1
NEW HAMPSHIRE. . . . .	7	1	.8B	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
VERMONT. . . . .	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
MASSACHUSETTS. . . . . E1	107	28	2.9	18.2	2.2	4.1	12.4	38.2	32.1	70.5	(D)	2.7	26.0
RHODE ISLAND. . . . . E5	88	5	.7	3.3	.6	.9	2.3	7.0	4.9	11.7	(D)	.7	5.0
CONNECTICUT. . . . . E1	40	11	.7	6.5	.6	1.1	3.7	10.3	7.5	17.4	(D)	1.0	16.3

See footnotes at end of table.

TABLE 2. General Statistics by Geographic Area: 1972 and 1967—Continued

(See appendix, Explanation of Terms)

Industry and geographic area	1972											1967	
	Establishments		All employees		Production workers			Value added by manufacture	Cost of materials	Value of shipments	Capital expenditures, new	All employees <sup>1</sup>	Value added by manufacture
	Total	With 20 employees or more	Number <sup>1</sup>	Payroll	Number	Man-hours	Wages						
	(number)	(number)	(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
3999-- MANUFACTURING INDUSTRIES, NEC-- CONTINUED													
NORTHEAST REGION--CONTINUED													
MIDDLE ATLANTIC DIVISION . . . E1	1 151	259	26.5	185.3	20.4	38.0	121.3	372.0	287.1	657.3	(D)	24.1	233.3
NEW YORK . . . . . E2	805	156	12.8	87.6	10.1	18.5	57.5	165.9	141.2	305.2	(D)	15.4	144.0
NEW JERSEY . . . . . E1	183	62	7.6	55.7	5.6	10.6	36.7	98.2	85.5	184.6	(D)	4.1	45.7
PENNSYLVANIA . . . . . E1	163	41	6.1	42.1	4.8	8.9	27.1	107.9	60.4	167.5	(D)	4.7	43.6
NDRTM CENTRAL REGIDN . . . . E1	695	132	16.5	109.4	13.4	24.6	72.7	233.9	162.2	387.5	10.3	16.2	159.4
EAST NDRTM CENTRAL DIVISION. . E1	525	99	12.9	90.1	10.4	19.2	59.5	188.4	139.3	319.7	7.7	13.2	138.8
DHID . . . . . E2	117	22	2.3	14.7	1.9	3.6	9.8	29.1	21.7	48.4	(D)	1.9	18.1
INDIANA . . . . . E3	42	6	.4	2.0	.3	.5	1.3	4.1	4.1	8.2	(D)	.3	2.0
ILLINDIS . . . . . E1	183	42	6.9	48.7	5.8	10.6	34.1	99.5	76.5	172.3	3.5	7.4	71.7
MICHIGAN . . . . . E3	106	12	1.0	7.8	.8	1.5	5.6	15.0	6.5	21.3	.4	2.1	21.8
WISCONSIN . . . . . E1	77	17	2.3	16.9	1.6	2.9	8.7	40.8	30.4	69.5	2.2	1.6	25.2
WEST NDRTM CENTRAL DIVISION. . E1	170	33	3.6	19.4	3.0	5.4	13.1	45.5	22.9	67.8	2.6	3.0	20.6
MINNESOTA . . . . . E1	43	9	1.2	6.5	1.0	1.6	4.6	12.0	6.9	18.8	.6	1.0	5.7
IDA . . . . . E1	26	6	.7	3.7	.6	1.1	2.5	11.1	4.9	15.7	.2	.2	1.6
MISSOURI . . . . . E1	70	15	1.4	7.7	1.2	2.4	5.2	19.9	8.3	28.0	1.5	1.4	11.5
SDUTH REGION . . . . . E2	570	79	9.6	57.2	7.7	14.5	35.7	128.0	85.2	211.6	4.7	6.2	46.1
SDUTH ATLANTIC DIVISION. . . . E1	314	38	5.6	35.8	4.5	8.5	22.1	86.4	51.5	135.2	(D)	3.4	29.2
MARYLAND . . . . . E1	34	7	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
VIRGINIA . . . . . E2	28	5	.5	3.6	.4	.8	2.2	9.7	8.6	18.1	(D)	.3	4.4
WEST VIRGINIA . . . . . E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
NDRTM CAROLINA . . . . . E1	45	9	1.8	12.7	1.5	3.1	8.3	36.5	16.6	50.7	(D)	1.1	8.6
SDUTH CAROLINA . . . . . E2	17	1	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
GEDRGIA . . . . . E1	28	2	1.0	6.9	.8	1.6	3.8	12.3	5.9	18.5	(D)	(NA)	(NA)
FLORIDA . . . . . E4	144	13	1.2	6.2	1.0	1.7	3.9	13.2	9.6	22.8	(D)	.9	6.3
EAST SDUTH CENTRAL DIVISION. . E2	73	17	1.8	8.9	1.4	2.7	5.8	17.7	13.7	31.0	.5	1.4	7.0
KENTUCKY . . . . . E2	18	8	1.0	4.8	.8	1.5	3.0	10.2	6.5	16.3	.3	CC	(D)
TENNESSEE . . . . . E3	24	4	.4	2.5	.4	.7	1.8	4.3	2.9	7.2	.2	.4	2.7
ALABAMA . . . . . E2	21	2	.2	1.1	.1	.2	.5	2.2	3.1	5.2	.1	(NA)	(NA)
MISSISSIPPI . . . . . E5	10	3	.2	.6	.1	.2	.4	1.1	1.1	2.2	(Z)	(NA)	(NA)
WEST SDUTH CENTRAL DIVISION. . E4	183	24	2.3	12.5	1.8	3.2	7.9	23.9	20.0	45.5	(D)	1.3	9.8
ARKANSAS . . . . . E5	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
LDUISIANA . . . . . E2	20	3	.88	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)
DKLAMDHA . . . . . E9	24	2	.2	1.2	.2	.3	.8	2.4	1.9	4.3	(D)	(NA)	(NA)
TEXAS . . . . . E4	125	17	1.6	8.9	1.2	2.2	5.6	15.8	14.9	31.8	.8	.9	6.0
WEST REGION. . . . . E3	683	97	8.0	48.5	6.3	10.9	30.3	102.4	68.3	169.0	(D)	5.2	48.7
MDUNTAIN DIVISION. . . . . E3	117	11	1.0	5.7	.8	1.3	3.3	14.0	9.5	23.2	(D)	.4	2.5
COLDRADD . . . . . E2	33	5	.4	2.5	.3	.5	1.2	7.5	5.1	12.2	(D)	.2	1.4
ARIZONA . . . . . E3	26	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
PACIFIC DIVISION . . . . . E3	566	86	7.0	42.8	5.5	9.7	27.1	88.4	58.8	145.8	(D)	4.8	46.2
WASHINGTON . . . . . E4	46	2	.3	1.9	.2	.4	1.4	3.7	2.9	6.7	(D)	(NA)	(NA)
DREGDN . . . . . E2	34	5	.4	1.9	.3	.4	.9	3.5	2.4	5.5	(D)	.2	1.5
CALIFDRNIA . . . . . E3	468	75	5.8	37.0	4.6	8.1	23.9	78.2	51.3	128.3	(D)	4.2	43.7
HAWAII . . . . . E5	17	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.88	(D)

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those States where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent  
E2--20 to 29 percent

E3--30 to 39 percent  
E4--40 to 49 percent

E5--50 to 59 percent  
E6--60 to 69 percent

E7--70 to 79 percent  
E8--80 to 89 percent

E9--90 to 99 percent  
E0--100 percent

(NA) Not available. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>General statistics for some producing areas are withheld to avoid disclosing figures for individual companies. For States with 150 total employment and more, the number of establishments is shown and the employment size range is indicated by one of the following symbols:

AA--150 to 249 employees

BB--250 to 499 employees

CC--500 to 999 employees

EE--1,000 to 2,499 employees

FF--2,500 employees and over



(See appendix, Explanation of Terms)

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. General Statistics, by Employment Size of Establishment: 1972

(See appendix, Explanation of Terms)

Item	Establishments  (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expendi- tures, new (million dollars)	End-of- year inven- tories (million dollars)
		Number	Payroll	Number	Man-hours	Wages					
		(1,000)	(million dollars)	(1,000)	(millions)	(million dollars)					
3991-- BROOMS AND BRUSHES											
ESTABLISHMENTS, TOTAL. . . . .	450	17.5	118.5	14.2	26.8	79.5	235.5	204.9	438.3	13.0	98.5
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	169	.3	1.7	.3	.5	1.2	4.7	4.1	8.7	.3	1.8
5 TO 9 EMPLOYEES . . . . . E6	67	.5	2.7	.4	.7	1.9	5.5	5.0	10.6	.2	1.9
10 TO 19 EMPLOYEES . . . . . E1	48	.7	4.5	.5	.9	2.8	9.5	9.0	18.2	.3	3.0
20 TO 49 EMPLOYEES . . . . .	78	2.5	15.3	2.0	3.8	10.0	30.6	29.4	59.7	3.2	10.0
50 TO 99 EMPLOYEES . . . . .	40	2.9	17.5	2.4	4.3	11.8	36.4	35.8	72.0	1.5	14.2
100 TO 249 EMPLOYEES . . . . .	35	5.3	35.0	4.3	8.1	22.7	68.6	61.0	128.8	3.4	24.3
250 TO 499 EMPLOYEES . . . . .	12	5.3	41.8	4.2	8.4	29.1	80.2	60.7	140.2	4.1	43.2
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	197	.6	3.5	.6	1.0	2.4	8.3	7.4	15.6	.4	3.3
3993-- SIGNS AND ADVERTISING DISPLAYS											
ESTABLISHMENTS, TOTAL. . . . . E2	3 287	49.8	415.9	37.5	68.3	261.5	760.8	447.0	1 198.0	29.8	126.0
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	1 495	2.4	18.3	2.3	3.4	11.8	58.0	13.7	71.7	1.1	3.3
5 TO 9 EMPLOYEES . . . . . E6	652	4.4	36.0	3.3	6.1	22.9	70.4	38.8	109.2	3.4	9.2
10 TO 19 EMPLOYEES . . . . . E2	503	6.9	59.0	5.1	9.6	38.0	104.4	55.5	159.3	4.4	12.1
20 TO 49 EMPLOYEES . . . . . E1	419	12.9	109.3	9.4	17.0	68.4	190.0	102.3	289.6	7.7	24.4
50 TO 99 EMPLOYEES . . . . .	143	9.9	84.1	7.6	14.5	53.4	142.1	98.5	238.9	5.4	25.0
100 TO 249 EMPLOYEES . . . . .	61	8.9	72.9	6.6	11.7	44.2	123.1	84.4	205.7	4.6	29.9
250 TO 499 EMPLOYEES . . . . .	14	4.4	36.5	3.2	6.2	22.8	72.8	53.8	123.8	3.2	22.2
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	1 611	4.2	32.1	3.6	5.9	20.4	73.6	44.7	118.2	3.3	11.8
3995-- BURIAL CASKETS											
ESTABLISHMENTS, TOTAL. . . . .	515	14.8	109.3	11.8	22.6	72.0	210.3	183.7	391.9	8.8	57.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E9	160	.3	1.8	.3	.4	1.2	4.3	4.0	8.4	.3	1.2
5 TO 9 EMPLOYEES . . . . . E7	77	.5	3.4	.4	.8	2.3	6.9	7.0	13.9	.4	2.0
10 TO 19 EMPLOYEES . . . . . E1	89	1.3	8.6	1.0	1.9	5.6	18.5	21.2	39.6	.7	5.9
20 TO 49 EMPLOYEES . . . . .	121	3.9	27.1	3.0	5.8	17.2	46.2	56.2	102.6	1.3	14.7
50 TO 99 EMPLOYEES . . . . .	39	2.5	16.0	2.0	3.9	11.8	26.9	29.6	56.3	.8	8.0
100 TO 249 EMPLOYEES . . . . .	21	3.1	24.1	2.5	4.9	17.0	39.3	34.7	73.2	2.0	13.6
250 TO 499 EMPLOYEES . . . . .	7	3.3	28.3	2.5	4.9	16.9	68.2	31.1	98.0	3.3	12.4
500 TO 999 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	206	.7	4.2	.6	1.0	2.8	9.7	9.0	18.8	.7	2.8
3996-- HARD SURFACE FLOOR COVERINGS											
ESTABLISHMENTS, TOTAL. . . . .	20	5.8	59.4	4.6	9.7	44.7	212.0	135.2	342.3	14.0	49.7
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E5	4	(2)	.2	(2)	(2)	.1	.4	.3	.7	(2)	(2)
5 TO 9 EMPLOYEES . . . . .	2	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
10 TO 19 EMPLOYEES . . . . .	3	(2)	.3	(2)	.1	.2	1.0	1.0	2.0	.1	.3
20 TO 49 EMPLOYEES . . . . .	2	.2	1.0	.1	.2	.7	4.3	2.7	6.6	.2	.9
50 TO 99 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
100 TO 249 EMPLOYEES . . . . .	3	.9	8.0	.7	1.5	5.8	30.8	14.0	43.7	1.0	7.9
250 TO 499 EMPLOYEES . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
500 TO 999 EMPLOYEES . . . . .	3	4.7	49.9	3.7	7.9	38.1	175.6	117.5	289.3	12.7	40.5
2,500 EMPLOYEES OR MORE . . . . .	1	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	4	(2)	.1	(2)	(2)	.1	.2	.1	.3	(2)	.1
3999-- MANUFACTURING INDUSTRIES, NEC											
ESTABLISHMENTS, TOTAL. . . . . E1	3 368	65.3	432.1	51.6	94.9	281.1	900.3	654.0	1 539.9	40.3	261.9
ESTABLISHMENTS WITH AN AVERAGE OF-											
1 TO 4 EMPLOYEES . . . . . E8	1 687	2.7	16.1	2.6	4.1	10.9	36.5	28.4	68.7	1.6	11.2
5 TO 9 EMPLOYEES . . . . . E6	638	4.3	27.2	3.3	6.2	18.0	57.8	44.0	101.8	2.3	15.5
10 TO 19 EMPLOYEES . . . . . E4	428	5.8	38.4	4.5	8.4	24.9	75.9	59.8	135.3	2.9	19.3
20 TO 49 EMPLOYEES . . . . . E2	340	10.1	65.4	8.1	14.5	41.8	127.5	106.9	231.2	4.8	34.8
50 TO 99 EMPLOYEES . . . . . E1	149	10.0	61.1	8.1	14.7	40.6	120.0	95.5	212.3	5.2	34.8
100 TO 249 EMPLOYEES . . . . .	90	13.8	83.7	10.9	19.8	55.9	182.7	139.8	319.1	7.7	52.1
250 TO 499 EMPLOYEES . . . . .	25	8.9	56.0	7.0	13.1	37.5	112.1	72.6	182.1	4.4	39.7
500 TO 999 EMPLOYEES . . . . .	8	5.8	42.9	4.4	9.0	25.5	87.8	59.1	146.9	4.7	27.7
1,000 TO 2,499 EMPLOYEES . . . . .	3	4.0	41.3	2.6	5.1	26.1	100.0	47.8	142.5	6.7	27.6
ESTABS. COVERED BY ADMIN. RECORD <sup>1</sup> .	1 687	5.4	31.4	4.7	8.2	20.8	70.1	50.9	121.0	2.6	20.5

Note: The payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a Census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated. The following symbols are shown for those size classes where administrative records data were used and account for 10 percent or more of the figures shown:

E1--10 to 19 percent      E3--30 to 39 percent      E5--50 to 59 percent      E7--70 to 79 percent      E9--90 to 99 percent  
E2--20 to 29 percent      E4--40 to 49 percent      E6--60 to 69 percent      E8--80 to 89 percent      E0--100 percent

(D) Withheld to avoid disclosing figures for individual companies. Data for this item are included in the underscored figures above. (Z) Less than half of the unit of measurement shown.

<sup>1</sup>Report forms were not mailed to companies that operated only one establishment--generally single-unit companies with less than 10 employees. Payroll and sales for 1972 were obtained from administrative records supplied to other agencies of the Federal Government. These payroll and sales data were then used in conjunction with industry averages to estimate the balance of the items shown in the table. Data are also included in the respective size classes shown for this industry.

TABLE 5A. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1972

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for the establishment. See the appendix for

method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown, for some industries, product classes, or specialization ratios for various reasons; e.g., to avoid disclosure of individual company data.

Industry or product class code	Industry or product class by percent of specialization	Establishments (number)	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	Capital expenditures, new (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)				
3991	BRDMS AND BRUSHES										
	ENTIRE INDUSTRY . . . . .	450	17.5	118.5	14.2	26.8	79.5	235.5	204.9	438.3	13.0
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	425	14.5	99.4	11.7	22.2	65.5	191.8	180.9	370.3	10.9
39911	BRDMS (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	65	2.7	14.2	2.2	3.9	10.1	28.0	28.5	56.5	1.0
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	46	1.7	8.6	1.3	2.2	6.2	15.2	15.8	31.2	.4
39912	PAINT AND VARNISH BRUSHES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	45	4.2	30.7	3.4	6.5	19.8	65.5	65.0	128.3	4.9
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	39	3.8	28.0	3.0	5.9	18.0	59.4	57.5	114.5	4.7
39913	OTHER BRUSHES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	102	9.2	65.3	7.5	14.3	43.9	124.7	95.7	220.1	5.9
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	86	6.9	48.4	5.6	10.7	32.0	84.8	78.1	162.4	4.1
3993	SIGNS AND ADVERTISING DISPLAYS										
	ENTIRE INDUSTRY . . . . .	3 287	49.8	415.9	37.5	68.3	261.9	760.8	447.0	1 198.0	29.8
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	3 246	47.6	400.3	35.8	65.4	252.1	744.0	413.0	1 147.6	28.6
39931	LUMINDUS TUBING AND BULB SIGNS (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	298	10.3	98.6	7.4	14.0	64.1	167.2	87.4	250.8	7.2
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	243	9.1	87.8	6.6	12.4	57.0	150.6	79.7	226.8	6.2
39932	NONELECTRIC SIGNS AND ADVERTISING DISPLAYS (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	627	20.0	172.0	14.9	28.0	105.7	292.1	202.7	490.3	10.7
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	549	17.1	147.6	12.7	24.0	91.1	258.5	159.7	414.6	9.1
39933	ADVERTISING SPECIALTIES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	167	7.3	54.4	5.5	10.0	34.2	106.1	65.3	169.9	3.1
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	144	6.5	48.5	4.9	8.8	30.7	94.6	59.4	152.6	2.4
3995	BURIAL CASKETS										
	ENTIRE INDUSTRY . . . . .	515	14.8	109.3	11.8	22.6	72.0	210.3	183.7	391.9	8.8
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	510	14.7	108.1	11.7	22.4	71.4	208.4	181.6	387.9	8.8
39951	METAL CASKETS, COFFINS, LINED, TRIMMED (ADULT) (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	148	8.6	64.2	6.7	12.9	40.3	127.4	109.8	236.1	5.2
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	75	5.3	40.9	4.1	7.6	24.9	91.0	68.4	158.9	3.7
39952	WOOD CASKETS, COFFINS, LINED, TRIMMED (ADULT) (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	68	2.5	17.4	2.0	4.0	12.2	31.2	28.5	59.0	.9
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	21	1.2	8.4	1.0	2.0	6.2	13.9	9.6	22.9	.5
39953	OTHER CASKETS AND COFFINS AND METAL VAULTS (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	42	2.1	17.7	1.8	3.4	13.0	30.9	26.5	57.1	1.5
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	35	1.9	16.2	1.6	3.0	11.9	28.3	24.3	52.2	1.4
3996	HARD SURFACE FLOOR COVERINGS										
	ENTIRE INDUSTRY . . . . .	20	5.8	59.4	4.6	9.7	44.7	212.0	135.2	342.3	14.0
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	19	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
3999	MANUFACTURING INDUSTRIES, NEC										
	ENTIRE INDUSTRY . . . . .	3 368	65.3	432.1	51.6	94.9	281.1	900.3	654.0	1 539.9	40.3
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	3 270	55.5	357.6	44.6	81.7	236.8	768.4	559.2	1 311.7	33.8
39991	CHEMICAL FIRE EXTINGUISHING EQUIPMENT AND PARTS (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	25	4.2	40.4	2.7	5.4	24.5	83.8	84.6	163.2	3.3
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	22	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
39992	COIN-OPERATED AMUSEMENT MACHINES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	10	3.0	22.9	2.7	5.2	17.0	42.8	28.6	69.6	.9
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	9	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
39993	MATCHES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	20	3.7	26.2	3.1	6.3	20.5	57.9	25.0	81.9	2.4
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	20	3.7	26.2	3.1	6.3	20.5	57.9	25.0	81.9	2.4
39994	CANDLES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	65	5.4	30.9	4.2	7.5	19.4	57.5	50.7	106.7	3.3
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	58	4.4	24.9	3.5	6.3	16.7	42.5	43.8	85.7	2.4
39995	LAMP SHADES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	54	2.2	12.4	1.8	3.5	8.7	19.2	16.7	35.6	.3
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	52	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
39996	FURS, DRESSED, AND DYED (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	83	2.1	14.6	1.8	3.2	11.3	24.4	18.2	42.4	.4
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	83	2.1	14.6	1.8	3.2	11.3	24.4	18.2	42.4	.4
39997	UMBRELLAS, PARASOLS, AND CANES (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	29	1.3	8.5	.9	1.7	4.6	16.6	26.0	40.9	.3
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	27	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)
39999	OTHER MISCELLANEOUS FABRICATED PRODUCTS, NEC (PRIMARY PRDDUCT CLASS OF ESTABLISHMENT). . . . .	504	23.5	164.3	18.4	34.7	103.0	384.6	253.8	632.3	17.6
	ESTABLISHMENTS WITH 75% DR MORE SPECIALIZATION. . . . .	460	19.9	139.7	15.7	29.1	88.1	331.6	220.1	545.2	15.6

(0) Withheld to avoid disclosing figures for individual companies.



TABLE 5B. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1972 and 1967

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry), and receipts for activities such as merchandising or contract work.

This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

1972 code	Industry and census year	Value of shipments					Value of primary product shipments			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio	Total, made in all industries	Made in this industry	Made in other industries	Coverage ratio
		(million dollars)	(million dollars)	(million dollars)	(million dollars)	Col. B Col. B & C	(million dollars)	(million dollars)	(million dollars)	Col. B Col. F
		A	B	C	D	E	F	G	H	I
3991	Brooms and brushes.....1972..	438.3	367.1	32.4	38.8	92	391.8	367.1	24.7	94
	.....1967..	371.8	270.8	31.5	69.5	90	295.1	270.8	24.3	92
3993	Signs and advertising displays.....1972..	1,198.0	1,059.6	21.8	116.6	98	1,089.2	1,059.6	29.6	97
	.....1967..	875.1	761.7	21.3	92.1	97	800.6	761.7	38.9	95
3995	Burial caskets.....1972..	391.9	382.2	2.4	7.3	99	387.9	382.2	5.7	99
	.....1967..	306.1	282.0	13.9	10.2	95	288.0	282.0	6.0	98
3996	Hard-surface floor coverings.....1972..	342.3	298.3	38.5	5.5	88	300.3	298.3	2.0	99
	.....1967..	221.7	185.5	31.3	4.8	86	191.6	185.5	6.0	97
3999	Manufacturing industries, n.e.c.....1972..	1,539.9	1,335.7	126.1	78.1	91	1,455.3	1,335.7	119.6	92
	.....1967..	943.3	826.9	51.1	65.2	94	922.4	826.9	95.5	90

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Brooms and brushes (SIC 3991)	Signs and advertising displays (SIC 3993)	Burial caskets (SIC 3995)	Hard-surface floor coverings (SIC 3996)	Manufacturing industries, n.e.c. (SIC 3999)	Other industries
	Total shipments and miscellaneous receipts.....	(X)	438.3	1,198.0	391.9	342.3	1,539.9	(X)
3991-	Brooms and brushes.....	391.8	367.1	(under 2)	-	-	(under 2)	23.9
39911	Brooms.....	60.5	48.9	-	-	-	-	11.6
39912	Paint and varnish brushes....	112.6	111.7	(under 2)	-	-	-	(under 2)
39913	Other brushes.....	186.4	174.2	-	-	-	(under 2)	(over 2)
39910	Brooms and brushes, n.s.k.....	32.3	32.3	-	-	-	-	-
3993-	Signs and advertising displays..	1,089.2	-	1,059.6	-	-	(under 2)	(over 2)
39931	Luminous tubing and bulb signs.	198.7	-	197.8	-	-	-	.9
39932	Nonelectric signs and advertising displays.....	445.9	0	428.9	-	-	(under 2)	(over 2)
39933	Advertising specialties.....	155.7	-	147.0	-	-	(under 2)	(over 2)
39930	Signs and advertising displays, n.s.k.....	288.9	-	285.9	-	-	-	3.0
3995-	Burial caskets.....	387.9	-	-	382.2	-	-	5.7
39951	Metal caskets and coffins, completely lined and trimmed.	211.2	-	-	208.3	-	-	2.9
39952	Wood caskets and coffins, completely lined and trimmed.	68.7	-	-	68.7	-	-	-
39953	Other caskets and coffins and metal vaults.....	67.8	-	-	65.9	-	-	1.9
39950	Burial caskets, n.s.k.....	40.2	-	-	39.3	-	-	.9
39960	Hard-surface floor coverings...	300.3	-	-	-	298.3	-	2.0
3999-	Manufacturing industries, n.e.c.	1,455.3	(over 2)	(under 2)	-	-	1,335.7	117.3
39991	Chemical fire extinguishing equipment and parts.....	125.7	-	-	-	-	118.1	7.6
39992	Coin-operated amusement machines.....	91.1	-	-	-	-	(50-100)	(20-50)
39993	Matches.....	81.6	-	-	-	-	81.6	-
39994	Candles.....	100.8	-	-	-	-	88.9	11.9

See footnotes at end of table.

TABLE 5C. Industry-Product Analysis—Shipments by Product Class and Industry: 1972—Continued

In millions of dollars. This table shows where products of an industry (referred to as primary and listed in table 6A) are made and what products are made by establishments classified in an industry. Read down an industry column to find what products are produced in an industry. Read across to determine where the products of the industries in this chapter are produced. To the extent that some of the primary products are

made by industries not included in this chapter, the value of such shipments is shown in the "other industries" column. The specified other industries are listed at the end of the table if they account for more than \$2 million of the products primary to this chapter.

Product code	Industry, class of products, and miscellaneous receipts	All industries	Brooms and brushes (SIC 3991)	Signs and advertising displays (SIC 3993)	Burial caskets (SIC 3995)	Hard-surface floor coverings (SIC 3996)	Manu- facturing industries, n.e.c. (SIC 3999)	Other industries
	Shipments and miscellaneous receipts--Continued							
3999-	Manufacturing industries, n.e.c.--Continued							
39995	Lampshades.....	36.9	-	-	-	-	33.6	3.3
39996	Furs, dressed and dyed.....	42.3	-	-	-	-	41.7	.6
39997	Umbrellas, parasols, and canes	37.8	-	-	-	-	(20-50)	(2-5)
39999	Other miscellaneous fabricated products, n.e.c.....	621.6	(over 2)	(under 2)	-	-	562.6	56.7
39990	Manufactured products, n.e.c., n.s.k.....	317.5	-	-	-	-	306.2	11.3
	Other product shipments by 4-digit product group:							
2298-	Cordage and twine.....	(X)	-	-	-	-	(over 2)	(X)
2392-	Housefurnishings, n.e.c.....	(X)	5.0	-	-	-	(under 2)	(X)
2499-	Wood products, n.e.c.....	(X)	1.6	(under 2)	-	(under 2)	(over 2)	(X)
2752-	Commercial printing, litho- graphic.....	(X)	-	(over 2)	-	-	-	(X)
2869-	Industrial organic chemicals, n.e.c.....	(X)	-	-	-	-	(over 2)	(X)
2891-	Adhesives and sealants.....	(X)	-	-	-	(over 2)	-	(X)
3079-	Misc. plastics products.....	(X)	16.1	2.3	(under 2)	-	(10-20)	(X)
3231-	Products of purchased glass..	(X)	-	-	-	-	5.7	(X)
3292-	Asbestos products.....	(X)	-	-	-	(20-50)	-	(X)
3443-	Fabricated platework (boiler shops).....	(X)	-	-	-	-	(over 2)	(X)
3469-	Metal stampings, n.e.c.....	(X)	(under 2)	(2-5)	-	-	(2-5)	(X)
3489-	Ordnance and accessories,n.e.c.	(X)	-	-	-	-	(over 2)	(X)
3499-	Fabricated metal prod., n.e.c.	(X)	-	(under 2)	-	-	(5-10)	(X)
3569-	General industrial machinery, n.e.c.....	(X)	-	-	-	-	(2-5)	(X)
3645-	Residential lighting fixtures	(X)	-	(under 2)	-	-	(2-5)	(X)
3728-	Aircraft equipment, n.e.c....	(X)	-	-	-	-	(over 2)	(X)
3861-	Photographic equipment and supplies.....	(X)	-	(under 2)	-	-	(over 2)	(X)
3951-	Pens and mechanical pencils..	(X)	(under 2)	(under 2)	-	-	(over 2)	(X)
3961-	Costume jewelry.....	(X)	-	(under 2)	-	-	(over 2)	(X)
3962-	Artificial flowers.....	(X)	-	-	-	-	6.8	(X)
	Miscellaneous receipts.....	(X)	38.8	116.6	7.3	5.5	78.1	(X)
93000 00	Contract work.....	(X)	(D)	18.1	(D)	(D)	20.8	(X)
99980 13	Sales of scrap and refuse.....	(X)	(Z)	(D)	(D)	(D)	.9	(X)
99980 31	Receipts for installation.....	(X)	(X)	36.5	(X)	(X)	(D)	(X)
99980 41	Receipts for research and development work.....	(X)	(X)	.5	(X)	-	1.8	(X)
99980 61	Receipts for repair work.....	(X)	(D)	28.3	(X)	(X)	2.2	(X)
99980 98	Other miscellaneous receipts..	(X)	-	1.2	-	(D)	2.5	(X)
99980 00	Other miscellaneous receipts, n.s.k.....	(X)	1.2	(D)	1.0	-	(D)	(X)
99989 00	Resales.....	(X)	37.2	31.6	5.6	5.2	49.5	(X)
Product code	Industry, class of products, and miscellaneous receipts	Other industries	Product code	Industry, class of products, and miscellaneous receipts	Other industries			
	Listing of the other industries with over \$2 million shipments of the primary products			Listing of the other industries with over \$2 million shipments of the primary products--Continued				
3991-	2392 Housefurnishings, n.e.c.....	4.0	3999-	2834 Pharmaceutical preparations....	(2-5)			
	2841 Soap and other detergents.....	(over 2)		2844 Toilet preparations.....	(2-5)			
	3951 Pens and mechanical pencils.....	(over 2)		3021 Rubber and plastics footwear....	(over 2)			
				3421 Cutlery.....	(over 2)			
3993-	2651 Folding paperboard boxes.....	(5-10)		3634 Electrical housewares and fans..	(over 2)			
	2653 Corrugated and solid fiber boxes.	5.4		3645 Residential lighting fixtures...	4.0			
	3079 Miscellaneous plastics products.	5.8		3662 Radio and TV communication equipment.....	2.5			
	3479 Metal coating and allied services.....	(over 2)		3699 Electrical equipment and supplies, n.e.c.....	(2-5)			
3995-	3443 Fabricated platework (boiler shops).....	(over 2)		3822 Environmental controls.....	(over 2)			
				3944 Games, toys, and children's vehicles.....	(over 2)			
3999-	2771 Greeting card publishing.....	(10-20)		3964 Needles, pins, and fasteners...	5.3			

Note: Data shown parenthetically are ranges expressed in millions of dollars.

- Represents zero. (X) Not applicable. (D) Withheld to avoid disclosing figures for individual companies. (Z) Less than half of the unit of measurement shown (under 50 thousand dollars).

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3991- --	BROOMS AND BRUSHES, TOTAL.....		(X)	391.8	(X)	295.1
39911 --	Brooms.....		(X)	60.5	(X)	37.5
39911 13	Household floor brooms.....	1,000 dozens..	2,342.1	35.8	1,892.0	23.6
39911 98	Other brooms (industrial, whisk, toy, hearth, streetsweeping machine, street, stable, etc.).....		(X)	23.7	(X)	10.9
39911 00	Brooms, n.s.k.....		(X)	1.0	(X)	3.0
39912 --	Paint and Varnish Brushes.....		(X)	112.6	(X)	88.6
	Whitewash, kalsomine, paperhanging, marking, and stenciling brushes:					
39912 11	Pure bristle.....	1,000 dozens..	4,572.5	30.9	3,981.0	30.1
39912 31	Synthetic bristle.....	...do.....	4,884.2	37.9	5,339.0	28.4
39912 51	Other materials, including mixtures.....	...do.....	862.9	4.3	675.1	3.7
	Paint rollers (complete units) and replacement rollers:					
39912 71	Paint rollers, complete units.....	...do.....	3,464.4	25.6	(NA)	26.5
39912 75	Replacement rollers.....	...do.....	4,079.0	12.3	(NA)	(NA)
39912 00	Paint and varnish brushes, n.s.k.....		(X)	1.6	(X)	-
39913 --	Other Brushes.....		(X)	186.4	(X)	142.3
39913 11	Artists' brushes and hair pencils, except artists' airbrushes...	1,000 dozens..	(NA)	3.9	(NA)	6.8
	Personal brushes:					
39913 21	Toothbrushes.....	...do.....	14,692.3	26.3	17,213.5	22.4
39913 27	Hairbrushes.....	...do.....	6,438.9	23.8	(NA)	21.4
39913 29	Other, including shaving brushes.....		(X)	15.9	(X)	6.1
	Maintenance brushes (floorsweeps and brushes, scrubbrushes, dusting brushes, windowbrushes, etc.), excluding any twisted- in-wire brushes:					
39913 35	Household.....		(X)	22.5	(X)	18.8
39913 37	Industrial.....		(X)	30.3	(X)	17.1
39913 43	Industrial brushes, except maintenance, including power-driven rotary, end, cup, jewelers', dentists', etc.....		(X)	24.7	(X)	25.3
39913 51	Twisted-in-wire brushes, all types.....		(X)	19.8	(X)	11.9
39913 98	Other brushes.....		(X)	17.7	(X)	10.6
39913 00	Other brushes, n.s.k.....		(X)	1.5	(X)	1.8
39910 00	Brooms and brushes, n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	16.7	(X)	15.2
39910 02	Brooms and brushes, n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	15.6	(X)	11.6
1972 product code	Product	Total product shipments including interplant transfers (million dollars)				
		1972		1967		
3993- --	SIGNS AND ADVERTISING DISPLAYS, TOTAL.....			1,089.2	800.6	
39931 11	Luminous tubing, and fluorescent lamp and incandescent lamp signs (electric).....			198.7	176.5	
39932 --	Nonelectric Signs and Advertising Displays.....			445.9	349.3	
	Metal signs, by any application process, including point-of-sale signs, road signs, truck signs, highway and street markers, and all other metal signs:					
39932 11	Porcelain enameled.....			23.4	77.5	
39932 19	All other metal signs.....			116.0		
	Signs other than metal:					
39932 23	Screen printed.....			62.6	24.4	
39932 25	Other.....			38.1	15.6	
	Window, backbar, and counter and lobby cutouts and displays:					
39932 33	Screen printed.....			13.1	34.2	
39932 35	Other.....			50.1	26.7	
	All other signs and advertising displays, including sign letters:					
39932 93	Screen printed.....			23.9	118.9	
39932 95	Other.....			106.4	40.3	
39932 00	Nonelectric signs and advertising displays, n.s.k.....			12.3	11.8	
39933 11	Advertising specialties.....			155.7	115.0	
39930 00	Signs and advertising displays, n.s.k., for companies with 10 employees or more. (See note.).....			169.1	94.7	
39930 02	Signs and advertising displays, n.s.k., for companies with less than 10 employees. (See note.).....			119.8	65.1	

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3995- --	BURIAL CASKETS, TOTAL.....	.....	(X)	387.9	(X)	<sup>1</sup> 267.4
39951 --	Metal Caskets and Coffins, Completely Lined and Trimmed, Adult Sizes Only <sup>2</sup> .....	.....	(X)	211.2	}	
39951 13	Steel caskets and coffins, excluding stainless steel.....	1,000 units...	1,105.4	180.5		
39951 15	Other metal caskets and coffins (stainless steel, bronze, copper, etc.).....	...do.....	45.4	26.3		
39951 00	Metal caskets and coffins, n.s.k.....	.....	(X)	4.4		
39952 --	Wood Caskets and Coffins, Completely Lined and Trimmed, Adult Sizes Only <sup>2</sup> .....	.....	(X)	68.7	}	(NA)
39952 11	Cloth covered, softwood.....	1,000 units...	363.2	27.6		
39952 52	Hardwood.....	...do.....	205.2	40.5		
39952 00	Wood caskets and coffins, n.s.k.....	.....	(X)	.6		
39953 --	Other Caskets and Coffins and Metal Vaults <sup>1 2</sup> .....	.....	(X)	67.8		
39953 11	Caskets and coffins other than metal or wood, completely lined and trimmed, including plastic, fiberglass, foam, masonite cardboard, fiberboard, etc., and including children's sizes, regardless of material.....	1,000 units...	81.7	6.8	}	
39953 31	Casket shells, KD and SU, unlined or untrimmed: Metal.....	...do.....	496.5	34.5		
39953 55	Wood.....	...do.....	112.9	5.1		
39953 59	Other materials, including plastic, fiberglass, foam, masonite, cardboard, fiberboard, etc.....	...do.....	14.9	1.4		
39953 91	Metal burial vaults (12 gage and heavier), excluding concrete vaults or shipping cases.....	...do.....	106.6	11.7		
39953 92	Burial boxes, burial vaults (except metal and concrete), and casket shipping containers and cases.....	.....	(X)	2.3	(X)	(NA)
39953 00	Other caskets and coffins and metal vaults, n.s.k.....	.....	(X)	6.0	-	-
39950 00	Burial caskets, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	21.4	(X)	14.7
39950 02	Burial caskets, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	18.8	(X)	11.1

1972 product code	Product	Unit of measure	1972			1967		
			Production for all purposes	Total product shipments including interplant transfers		Production for all purposes	Total product shipments including interplant transfers	
				Quantity	Value (million dollars)		Quantity	Value (million dollars)
3996- --	HARD SURFACE FLOOR COVERINGS, TOTAL <sup>2</sup> .....	.....	(X)	(X)	300.3	(X)	(X)	191.6
39960 11	Linoleum:	}	(X)	(X)	<sup>3</sup> 15.1	(X)	(X)	<sup>3</sup> 30.8
39960 13	Sheet goods.....							
39960 25	Asphalted-felt-base and supported plastic floor covering: Enamel coated or printed border rugs and sheet goods.....	}	(4)	(4)	(4)	140.1	135.9	91.8
39960 33	Plastic coated or plastic printed border rugs and sheet goods, including rotogravure printed: Temporary rotogravure, noncushioned.....							
39960 35	Temporary rotogravure, cushioned.....							
39960 37	Permanent rotogravure.....							
39960 41	Other asphalted-felt-base floor covering.....	}	(3)	(3)	(3)	(3)	(3)	(3)
39960 51	Wall covering.....							
39960 61	Supported, plastic floor, wall, and counter covering, including scrap vinyl backed: Sheet goods.....	}	(NA)	(NA)	<sup>4</sup> 269.5	28.3	27.5	67.8
39960 65	Tile.....							
39960 00	Hard surface floor coverings, n.s.k., for establishments with 10 employees or more. (See note.).....	.....	(X)	(X)	4.1	(X)	(X)	1.0
39960 02	Hard surface floor coverings, n.s.k., for establishments with less than 10 employees. (See note.).....	.....	(X)	(X)	.3	(X)	(X)	.2

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Includes quantity and value of the products reported not only by establishments classified in this industry, but also by establishments classified in other industries, and shipping these products as "secondary" products. See appendix, Explanation of Terms "Value of shipments")

1972 product code	Product	Unit of measure	Total product shipments including interplant transfers			
			1972		1967	
			Quantity	Value (million dollars)	Quantity	Value (million dollars)
3999- --	MANUFACTURED PRODUCTS, N.E.C., TOTAL.....		(X)	1,455.3	(X)	922.4
39991 --	Chemical Fire Extinguishing Equipment and Parts.....		(X)	125.7	(X)	94.6
	Hand portable extinguishers, meeting the specifications of underwriters' laboratories and factory mutual laboratories:					
39991 11	Soda-acid.....	1,000 units...	( <sup>5</sup> )	( <sup>5</sup> )	208.5	2.6
39991 13	Carbon dioxide.....	..do.....	384.6	10.7	1,166.0	17.3
39991 15	Vaporizing liquid (carbon tetrachloride base).....	..do.....	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
39991 17	Dry chemical.....	..do.....	5,175.7	58.3	2,996.4	32.2
39991 18	Pressurized water.....	..do.....	584.7	10.0	483.0	7.2
39991 19	Other extinguishers, including foam.....	..do.....	( <sup>5</sup> )	<sup>5</sup> 11.5	<sup>6</sup> 521.7	7.2
39991 29	All other hand portable extinguishers.....	..do.....	( <sup>5</sup> )	( <sup>5</sup> )	(NA)	.3
	Other chemical fire extinguishing equipment and parts:					
39991 51	Two-wheeled fire engines.....	..do.....	}	(X)	21.6	10.3
39991 61	Fixed systems, excluding water sprinkler systems.....	..do.....		(X)	11.6	3.4
39991 71	Parts and attachments for chemical fire extinguishing equipment.	..do.....		(X)	2.0	9.8
39991 00	Chemical fire extinguishing equipment and parts, n.s.k.....	..do.....	(X)		(X)	8.2
					(X)	6.4
39992 --	Coin-Operated Amusement Machines.....		(NA)	91.1	(NA)	47.7
39992 12	Pinball machines and bell-type machines and consoles.....	1,000 units...	}	(NA)	75.6	31.7
39992 98	Other amusement machines, including strength testing, skill games, and other arcade pieces.....	..do.....		(NA)	(NA)	16.0
39993 --	Matches.....		(X)	81.6	(X)	66.2
	Wooden stem:					
39993 12	Packed in boxes of over 100 matches.....	Bill. boxes	(NA)	4.1	18.3	3.3
	Packed in boxes of not over 100 matches:	matches.....				
39993 31	Strike anywhere.....	..do.....	}	(NA)	7.9	55.8
39993 35	Strike on box.....	..do.....		(NA)	69.6	7.8
39993 61	Paper stem, packed in books or otherwise.....	..do.....		(NA)	(NA)	55.0
39993 00	Matches, n.s.k.....	..do.....	(X)	-	(X)	.1
39994 11	Candles, including tapers.....		(X)	100.8	(X)	55.1
39995 11	Lampshades.....		(X)	36.9	(X)	27.4
39996 --	Furs, Dressed and Dyed.....		(X)	42.3	(X)	39.8
39996 11	Furs, dressed and dyed.....		(X)	31.4	(X)	
39996 93	Receipts for dressing and dyeing furs done on materials owned by others.....		(X)	10.9	(X)	39.8
39997 --	Umbrellas, Parasols, and Canes.....		(X)	37.8	(X)	40.3
39997 13	Umbrellas and parasols.....		}	(X)	37.8	(X)
39997 15	Canes.....					40.3
39999 --	Other Miscellaneous Fabricated Products, N.E.C.....		(X)	621.6	(X)	390.5
39999 06	Barber and beauty chairs.....	Number.....	(NA)	6.5	(NA)	16.1
39999 07	Hair clippers for human use, hand and electric.....		}	(X)	19.2	(X)
39999 09	Other barber and beauty-shop furniture and equipment.....					9.7
39999 13	Beauty and barber-shop accessories, including hair curlers, pads, and wraps.....			(X)	17.5	(X)
	Hair work, switches, toupees, and wigs:					14.4
39999 23	Wigs only.....		(X)	5.2	}	(X)
39999 25	All other hairpieces.....		(X)	2.8		32.0
39999 42	Tobacco pipes.....	1,000 units...	9,361.0	16.9	9,872.1	14.6
39999 43	Cigar and cigarette holders.....	..do.....	(NA)	1.0	(NA)	.7
39999 44	Cigar and cigarette lighters, except precious metal and electric.....	Million units.	3.1	21.5	(NA)	37.2
39999 51	Christmas tree ornaments and decorations, except glass and electrical.....	..do.....	3,512.1	56.4	(NA)	21.3
39999 98	Miscellaneous fabricated products, n.e.c.....		(X)	445.0	(X)	215.3
39999 00	Other miscellaneous fabricated products, n.e.c., n.s.k.....		(X)	29.6	(X)	12.9
39990 00	Miscellaneous products, n.e.c., n.s.k., for establishments with 10 employees or more. (See note.).....		(X)	196.5	(X)	119.7
39990 02	Miscellaneous products, n.e.c., n.s.k., for establishments with less than 10 employees. (See note.).....		(X)	121.0	(X)	41.2

Note: In the 1972 Census of Manufactures, shipments data for establishments of small companies, typically those with fewer than 10 employees, were estimated from administrative record data rather than collected from respondents. These shipments figures (which are further discussed in the text) are included in the code ending with "002." In both the 1972 and 1967 censuses of manufactures, products which were not completely identified on the standard forms were coded to the appropriate product-class code (5 digits) followed by "00," or in some cases to the appropriate product-group code (4 digits) followed by "000."

- Represents zero. (X) Not applicable. (NA) Not available.

Footnotes continued on next page.

TABLE 6A. Products and Product Classes—Quantity and Value of Shipments by All Producers: 1972 and 1967—Continued

(Footnotes for table 6A)--Continued

<sup>1</sup>Data for several products included in this industry in 1967 have been moved to other industries. These products are embalming chemicals, burial garments, and innerliners for caskets, sold as such. The value of these products in 1967 (\$20.6 million) was included with other mortician's supplies, including burial boxes, burial vaults, except metal and concrete, embalming chemicals, burial garments, casket shipping containers and cases, innerliners sold as such, and morticians' equipment and supplies.

<sup>2</sup>The product class structure for this industry was revised effective in 1972. The data for children-sized caskets and coffins are now included in product class 39953, whereas in 1967 they were included in product classes 39951 and 39952. However, the effect of this change is estimated to be less than 2 percent of the total for the industry.

<sup>3</sup>Data for product codes 39960 41 and 39960 51 are combined with product codes 39960 11, 39960 13, and 39960 25 to avoid disclosing figures for individual companies.

<sup>4</sup>1972 data for product codes 39960 33, 39960 35, and 39960 37 are included with product code 39960 61 to avoid disclosing figures for individual companies.

<sup>5</sup>Data for 1972 product code 39991 11, "Soda-acid"; 39991 15, "Vaporizing liquid (carbon tetrachloride base)"; and 39991 29, "All other hand portable extinguishers," have been combined with product code 39991 19, "Other extinguishers, including foam," to avoid disclosing figures for individual companies.

<sup>6</sup>Data for 1967, for product code 39991 15, "Vaporizing liquid (carbon tetrachloride base)," have been combined with product code 39991 19, "Other extinguishers, including foam," to avoid disclosing figures for individual companies.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
BROOMS (39911)			PAINT AND VARNISH BRUSHES (39912)--Continued		
United States.....	59.9	(NA)	North Central Region.....	42.0	27.3
Northeast Region.....	20.1	(NA)	East North Central Division.....	40.4	FF
New England Division.....	7.9	(NA)	Ohio.....	EE	EE
Massachusetts.....	CC	(NA)	Illinois.....	BB	BB
Connecticut.....	AA	(NA)	Michigan.....	AA	(NA)
Middle Atlantic Division.....	12.2	(NA)	Wisconsin.....	EE	CC
New York.....	CC	(NA)	West North Central Division.....	1.6	AA
New Jersey.....	AA	(NA)	Minnesota.....	AA	(NA)
Pennsylvania.....	BB	(NA)	South Region.....	20.7	14.3
North Central Region.....	EE	(NA)	South Atlantic Division.....	EE	EE
East North Central Division.....	EE	(NA)	Maryland.....	EE	8.4
Indiana.....	AA	(NA)	Georgia.....	AA	AA
Illinois.....	CC	(NA)	Florida.....	AA	AA
Michigan.....	BB	(NA)	East South Central Division.....	BB	BB
Wisconsin.....	BB	(NA)	Tennessee.....	BB	AA
West North Central Division.....	AA	(NA)	West Region.....	5.7	4.7
South Region.....	18.2	(NA)	Pacific Division.....	CC	4.7
South Atlantic Division.....	10.2	(NA)	Oregon.....	BB	AA
Maryland.....	AA	(NA)	California.....	BB	BB
Virginia.....	AA	(NA)	OTHER BRUSHES (39913)		
North Carolina.....	CC	(NA)	United States.....	186.4	142.3
Florida.....	1.1	(NA)	Northeast Region.....	93.3	76.5
East South Central Division.....	3.5	(NA)	New England Division.....	49.9	35.5
Tennessee.....	AA	(NA)	Maine.....	AA	(NA)
Alabama.....	AA	(NA)	New Hampshire.....	BB	BB
West South Central Division.....	4.5	(NA)	Massachusetts.....	36.1	FF
Louisiana.....	1.0	(NA)	Connecticut.....	CC	EE
Texas.....	2.3	(NA)	Middle Atlantic Division.....	43.4	41.1
West Region.....	BB	(NA)	New York.....	27.3	29.6
Pacific Division.....	BB	(NA)	New Jersey.....	10.6	8.9
California.....	BB	(NA)	Pennsylvania.....	5.5	2.6
PAINT AND VARNISH BRUSHES (39912)			North Central Region.....	68.1	48.5
United States.....	112.9	88.6	East North Central Division.....	53.0	40.5
Northeast Region.....	44.5	42.3	Ohio.....	25.1	18.5
New England Division.....	11.6	10.7	Illinois.....	19.9	15.6
Vermont.....	AA	(NA)	Michigan.....	BB	2.0
Massachusetts.....	9.6	CC	Wisconsin.....	5.3	4.0
Middle Atlantic Division.....	32.9	31.6	West North Central Division.....	15.1	8.0
New York.....	25.1	19.2	Minnesota.....	BB	(NA)
New Jersey.....	BB	CC	Iowa.....	EE	CC
Pennsylvania.....	BB	BB	Nebraska.....	AA	AA

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER BRUSHES (39913)--Continued			NONELECTRIC SIGNS, ADVERTISING DISPLAYS (39932)--Continued		
South Region.....	17.5	12.1	North Central Region.....	178.2	148.5
South Atlantic Division.....	8.6	9.6	East North Central Division.....	143.9	121.2
Maryland.....	BB	CC	Ohio.....	34.3	28.1
North Carolina.....	AA	AA	Indiana.....	4.5	7.5
Georgia.....	1.9	(NA)	Illinois.....	63.8	53.7
Florida.....	AA	(NA)	Michigan.....	21.9	17.7
East South Central Division.....	CC	AA	Wisconsin.....	19.4	14.3
Kentucky.....	BB	AA	West North Central Division.....	34.3	27.3
Tennessee.....	CC	(NA)	Minnesota.....	7.8	10.5
West South Central Division.....	AA	(NA)	Iowa.....	6.5	BB
Texas.....	AA	(NA)	Missouri.....	13.4	8.2
West Region.....	7.6	5.1	Kansas.....	5.3	3.7
Pacific Division.....	7.6	5.1	South Region.....	81.2	61.9
California.....	CC	CC	South Atlantic Division.....	27.4	19.1
LUMINOUS TUBING AND BULB SIGNS (39931)			Maryland.....	3.5	4.6
United States.....	198.7	176.5	Virginia.....	CC	3.8
Northeast Region.....	30.3	28.2	North Carolina.....	3.0	1.9
New England Division.....	5.1	4.7	South Carolina.....	BB	1.4
Massachusetts.....	4.1	3.8	Georgia.....	7.3	2.6
Middle Atlantic Division.....	24.9	23.5	Florida.....	4.7	4.0
New York.....	16.5	15.3	East South Central Division.....	35.3	25.2
New Jersey.....	5.7	2.8	Kentucky.....	6.5	BB
Pennsylvania.....	2.6	5.5	Tennessee.....	24.6	18.0
North Central Region.....	72.1	68.0	Alabama.....	3.7	BB
East North Central Division.....	63.6	55.7	West South Central Division.....	18.5	17.6
Ohio.....	21.1	17.3	Arkansas.....	BB	2.0
Indiana.....	7.6	7.4	Oklahoma.....	4.3	(NA)
Illinois.....	16.3	15.5	Texas.....	9.5	14.5
Michigan.....	2.6	6.1	West Region.....	58.7	31.0
Wisconsin.....	16.1	9.3	Mountain Division.....	5.7	4.1
West North Central Division.....	8.5	12.3	Colorado.....	1.9	1.8
Minnesota.....	2.7	CC	Arizona.....	1.1	(NA)
Iowa.....	1.3	2.2	Nevada.....	BB	(NA)
Missouri.....	2.6	2.0	Pacific Division.....	53.0	26.9
Nebraska.....	1.3	(NA)	Washington.....	BB	3.6
South Region.....	51.3	33.2	Oregon.....	3.5	1.9
South Atlantic Division.....	18.6	12.8	California.....	46.7	21.2
Maryland.....	2.7	2.3	ADVERTISING SPECIALTIES (39933)		
District of Columbia.....	AA	(NA)	United States.....	155.5	115.0
North Carolina.....	1.0	(NA)	Northeast Region.....	67.1	49.8
South Carolina.....	BB	BB	New England Division.....	19.2	9.2
Georgia.....	2.3	1.7	Massachusetts.....	8.3	CC
Florida.....	5.2	4.2	Rhode Island.....	BB	(NA)
East South Central Division.....	15.4	11.7	Connecticut.....	6.3	BB
Tennessee.....	13.0	8.0	Middle Atlantic Division.....	47.8	40.6
Alabama.....	1.1	2.0	New York.....	32.9	26.1
West South Central Division.....	17.4	8.6	New Jersey.....	10.4	9.0
Louisiana.....	AA	1.4	Pennsylvania.....	4.5	5.5
Texas.....	14.5	4.3	North Central Region.....	59.9	51.8
West Region.....	45.0	47.2	East North Central Division.....	31.4	28.1
Mountain Division.....	15.6	7.5	Ohio.....	5.7	BB
Idaho.....	AA	(NA)	Indiana.....	BB	1.6
Colorado.....	3.8	1.9	Illinois.....	11.3	9.9
Arizona.....	1.9	(NA)	Michigan.....	BB	BB
Utah.....	CC	3.6	Wisconsin.....	9.1	6.8
Pacific Division.....	29.4	39.7	West North Central Division.....	28.6	23.7
Washington.....	5.0	3.9	Minnesota.....	CC	CC
Oregon.....	2.2	BB	Iowa.....	CC	CC
California.....	22.2	33.4	Missouri.....	12.2	9.6
NONELECTRIC SIGNS AND ADVERTISING DISPLAYS (39932)			South Region.....	16.0	6.5
United States.....	451.9	349.3	South Atlantic Division.....	4.0	1.5
Northeast Region.....	133.8	107.9	Virginia.....	BB	(NA)
New England Division.....	21.6	13.9	East South Central Division.....	9.2	3.6
Massachusetts.....	11.2	6.1	Kentucky.....	BB	(NA)
Rhode Island.....	5.5	4.6	Tennessee.....	4.5	BB
Connecticut.....	2.6	2.4	Alabama.....	BB	(NA)
Middle Atlantic Division.....	112.2	94.0	West South Central Division.....	2.8	1.4
New York.....	66.5	61.5	Texas.....	BB	1.0
New Jersey.....	18.9	12.1	West Region.....	12.6	6.9
Pennsylvania.....	26.9	19.3	Pacific Division.....	11.9	CC
			Washington.....	AA	(NA)
			California.....	9.7	6.7

See footnotes at end of table.

TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
METAL CASKETS AND COFFINS, LINED AND TRIMMED, ADULT (39951) <sup>1</sup>			WOOD CASKETS AND COFFINS, LINED AND TRIMMED, ADULT (39952)--Continued		
United States.....	211.2	133.7	West Region.....	10.1	10.1
Northeast Region.....	31.8	22.2	Mountain Division.....	1.2	1.2
New England Division.....	BB	3.0	Pacific Division.....	8.9	8.9
Massachusetts.....	3.2	BB	Washington.....	AA	AA
Middle Atlantic Division.....	FF	19.1	California.....	6.7	7.2
New York.....	CC	BB			
New Jersey.....	AA	AA	OTHER CASKETS AND COFFINS AND METAL VAULTS (39953) <sup>2</sup>		
Pennsylvania.....	20.2	15.2	United States.....	67.9	(NA)
North Central Region.....	114.1	70.7	Northeast Region.....	12.7	(NA)
East North Central Division.....	99.5	63.6	New England Division.....	7.3	(NA)
Ohio.....	11.8	11.0	New Hampshire.....	BB	(NA)
Indiana.....	GG	32.7	Massachusetts.....	BB	(NA)
Illinois.....	17.7	13.6	Middle Atlantic Division.....	5.4	(NA)
Michigan.....	4.2	3.4	New York.....	AA	(NA)
Wisconsin.....	BB	2.9	Pennsylvania.....	4.1	(NA)
West North Central Division.....	14.5	7.1	North Central Region.....	39.3	(NA)
Minnesota.....	AA	1.5	East North Central Division.....	37.9	(NA)
Iowa.....	1.8	1.7	Ohio.....	9.1	(NA)
Missouri.....	9.3	3.1	Indiana.....	17.8	(NA)
South Region.....	56.0	32.4	Illinois.....	EE	(NA)
South Atlantic Division.....	14.4	13.2	West North Central Division.....	1.5	(NA)
North Carolina.....	3.5	2.3	Missouri.....	AA	(NA)
South Carolina.....	BB	1.9	South Region.....	11.4	(NA)
Georgia.....	4.3	4.7	South Atlantic Division.....	1.2	(NA)
Florida.....	1.8	AA	East South Central Division.....	6.7	(NA)
East South Central Division.....	29.6	10.0	Tennessee.....	2.5	(NA)
Kentucky.....	CC	2.5	Alabama.....	2.7	(NA)
Tennessee.....	19.2	5.5	West South Central Division.....	3.6	(NA)
Alabama.....	2.3	AA	Texas.....	2.8	(NA)
Mississippi.....	BB	(NA)	West Region.....	4.4	(NA)
West South Central Division.....	12.0	9.2	Pacific Division.....	4.2	(NA)
Arkansas.....	2.0	1.7	California.....	3.4	(NA)
Louisiana.....	AA	1.1			
Oklahoma.....	AA	1.1	CHEMICAL FIRE EXTINGUISHER EQUIPMENT AND PARTS (39991)		
Texas.....	7.5	5.3	United States.....	126.0	94.6
West Region.....	9.3	8.4	Northeast Region.....	57.7	42.9
Mountain Division.....	1.5	1.3	New England Division.....	CC	BB
Pacific Division.....	7.8	7.1	Massachusetts.....	BB	AA
Washington.....	AA	AA	Connecticut.....	AA	BB
California.....	5.7	5.4	Middle Atlantic Division.....	GG	FF
WOOD CASKETS AND COFFINS, LINED AND TRIMMED, ADULT (39952) <sup>1</sup>			New York.....	12.2	9.3
United States.....	68.8	59.8	New Jersey.....	38.0	26.6
Northeast Region.....	30.6	24.8	Pennsylvania.....	BB	BB
New England Division.....	11.2	7.4	North Central Region.....	FF	41.9
Massachusetts.....	9.7	6.1	East North Central Division.....	FF	FF
Middle Atlantic Division.....	19.3	17.3	Illinois.....	FF	EE
New York.....	9.7	9.7	Wisconsin.....	FF	EE
Pennsylvania.....	CC	CC	South Region.....	EE	BB
North Central Region.....	9.1	9.5	South Atlantic Division.....	CC	BB
East North Central Division.....	6.2	7.1	West Virginia.....	CC	BB
Ohio.....	AA	1.5	East South Central Division.....	BB	(NA)
Indiana.....	AA	2.3	Alabama.....	BB	(NA)
Illinois.....	1.7	1.6	West South Central Division.....	AA	(NA)
Michigan.....	1.1	1.1	Texas.....	AA	(NA)
West North Central Division.....	2.8	2.4	West Region.....	CC	CC
Missouri.....	1.0	(NA)	Pacific Division.....	CC	CC
South Region.....	19.0	15.5	California.....	CC	CC
South Atlantic Division.....	9.9	5.2			
West Virginia.....	BB	(NA)	COIN-OPERATED AMUSEMENT MACHINES (39992)		
North Carolina.....	3.9	1.7	United States.....	91.1	(NA)
Georgia.....	AA	1.2	Northeast Region.....	CC	(NA)
East South Central Division.....	4.1	4.1	New England Division.....	CC	(NA)
Tennessee.....	1.8	1.9	New Hampshire.....	CC	(NA)
Alabama.....	AA	(NA)	Middle Atlantic Division.....	AA	(NA)
Mississippi.....	1.2	1.2			
West South Central Division.....	5.0	6.1			
Arkansas.....	2.1	2.1			
Texas.....	2.0	2.8			

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
COIN-OPERATED AMUSEMENT MACHINES (39992)--Con.			LAMP SHADES (39995)--Continued		
North Central Region.....	82.2	(NA)	North Central Region.....	7.0	(NA)
East North Central Division.....	82.2	(NA)	East North Central Division.....	CC	(NA)
Illinois.....	GG	(NA)	Illinois.....	6.4	(NA)
West Region.....	AA	(NA)	West Region.....	BB	(NA)
Pacific Division.....	AA	(NA)	Pacific Division.....	BB	(NA)
California.....	AA	(NA)	California.....	BB	(NA)
MATCHES (39993)			FURS, DRESSED AND DYED (39996)		
United States.....	81.5	(NA)	United States.....	42.3	(NA)
Northeast Region.....	EE	(NA)	Northeast Region.....	FF	(NA)
New England Division.....	CC	(NA)	Middle Atlantic Division.....	FF	(NA)
Massachusetts.....	CC	(NA)	New York.....	30.0	(NA)
Middle Atlantic Division.....	EE	(NA)	New Jersey.....	AA	(NA)
New York.....	CC	(NA)	Pennsylvania.....	5.8	(NA)
North Central Region.....	39.2	(NA)	South Region.....	BB	(NA)
East North Central Division.....	FF	(NA)	South Atlantic Division.....	BB	(NA)
Ohio.....	EE	(NA)	South Carolina.....	BB	(NA)
Illinois.....	12.5	(NA)	UMBRELLAS, PARASOLS, AND CANES (39997)		
West North Central Division.....	EE	(NA)	United States.....	37.8	(NA)
Minnesota.....	BB	(NA)	Northeast Region.....	24.9	(NA)
Missouri.....	EE	(NA)	Middle Atlantic Division.....	24.9	(NA)
South Region.....	13.8	(NA)	New York.....	14.9	(NA)
South Atlantic Division.....	CC	(NA)	New Jersey.....	CC	(NA)
Maryland.....	AA	(NA)	Pennsylvania.....	AA	(NA)
North Carolina.....	BB	(NA)	North Central Region.....	CC	(NA)
West South Central Division.....	CC	(NA)	East North Central Division.....	CC	(NA)
Louisiana.....	BB	(NA)	Ohio.....	CC	(NA)
Texas.....	BB	(NA)	South Region.....	3.2	(NA)
West Region.....	EE	(NA)	Middle Atlantic Division.....	BB	(NA)
Pacific Division.....	EE	(NA)	Maryland.....	BB	(NA)
California.....	EE	(NA)	West Region.....	BB	(NA)
CANDLES (39994)			Pacific Division.....	BB	(NA)
United States.....	102.6	(NA)	Oregon.....	AA	(NA)
Northeast Region.....	46.2	(NA)	California.....	BB	(NA)
New England Division.....	CC	(NA)	OTHER MISCELLANEOUS FABRICATED PRODUCTS, N.E.C. (39999)		
Massachusetts.....	CC	(NA)	United States.....	621.9	(NA)
Middle Atlantic Division.....	FF	(NA)	Northeast Region.....	323.7	(NA)
New York.....	31.4	(NA)	New England Division.....	60.2	(NA)
New Jersey.....	BB	(NA)	Vermont.....	BB	(NA)
Pennsylvania.....	BB	(NA)	Massachusetts.....	33.5	(NA)
North Central Region.....	34.4	(NA)	Rhode Island.....	BB	(NA)
East North Central Division.....	FF	(NA)	Connecticut.....	17.5	(NA)
Ohio.....	9.3	(NA)	Middle Atlantic Division.....	263.5	(NA)
Illinois.....	CC	(NA)	New York.....	89.2	(NA)
Wisconsin.....	CC	(NA)	New Jersey.....	49.8	(NA)
West North Central Division.....	EE	(NA)	Pennsylvania.....	124.5	(NA)
Missouri.....	EE	(NA)	North Central Region.....	137.1	(NA)
South Region.....	9.2	(NA)	East North Central Division.....	105.1	(NA)
East South Central Division.....	AA	(NA)	Ohio.....	18.6	(NA)
Tennessee.....	AA	(NA)	Indiana.....	CC	(NA)
West South Central Division.....	6.7	(NA)	Illinois.....	62.9	(NA)
Texas.....	CC	(NA)	Michigan.....	BB	(NA)
West Region.....	12.8	(NA)	Wisconsin.....	13.7	(NA)
Mountain Division.....	AA	(NA)	West North Central Division.....	32.0	(NA)
Pacific Division.....	EE	(NA)	Minnesota.....	8.8	(NA)
Oregon.....	1.3	(NA)	Iowa.....	EE	(NA)
California.....	9.6	(NA)	Missouri.....	8.2	(NA)
LAMP SHADES (39995)			Kansas.....	AA	(NA)
United States.....	36.9	(NA)	South Region.....	100.3	(NA)
Northeast Region.....	25.6	(NA)	South Atlantic Division.....	74.1	(NA)
Middle Atlantic Division.....	FF	(NA)	Maryland.....	2.3	(NA)
New York.....	12.0	(NA)	Virginia.....	EE	(NA)
New Jersey.....	CC	(NA)	North Carolina.....	36.4	(NA)
Pennsylvania.....	6.8	(NA)	Georgia.....	CC	(NA)
			Florida.....	10.5	(NA)

See footnotes at end of table.



TABLE 6B. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Area: 1972 and 1967—Continued

Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes.

Product class values for some States are withheld to avoid disclosing figures for individual companies. Such States are shown with a value range.

Product class and geographic area	Value of shipments (million dollars)		Product class and geographic area	Value of shipments (million dollars)	
	1972	1967		1972	1967
OTHER MISCELLANEOUS FABRICATED PRODUCTS, N.E.C. (39999)--Continued			OTHER MISCELLANEOUS FABRICATED PRODUCTS, N.E.C. (39999)--Continued		
South Region--Continued			West Region--Continued		
East South Central Division.....	19.4	(NA)	Mountain Division--Continued		
Kentucky.....	EE	(NA)	Colorado.....	CC	(NA)
Tennessee.....	CC	(NA)	Arizona.....	2.2	(NA)
West South Central Division.....	6.8	(NA)	Pacific Division.....	51.3	(NA)
Texas.....	5.9	(NA)	Washington.....	1.8	(NA)
West Region.....	60.8	(NA)	Oregon.....	1.2	(NA)
Mountain Division.....	9.5	(NA)	California.....	45.5	(NA)
			Hawaii.....	2.7	(NA)

Note: For some areas, exact figures are withheld to avoid disclosing figures for individual companies. The values are shown in ranges for those States where product-class shipments of \$1 million or more were reported. Following are the symbols and the value ranges (in million dollars) they represent:

AA.....\$1.0 to \$1.9

CC.....\$5.0 to \$9.9

FF.....\$20.0 to \$49.9

BB.....\$2.0 to \$4.9

EE.....\$10.0 to \$19.9

GG.....\$50.0 and over

(NA) Not available.

<sup>1</sup>The individual product codes included in this class of products for 1972 differ significantly from 1967. Products shifting out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

<sup>2</sup>Product class 39953 is new for 1972 and consists of products shifting out of product classes 39951 and 39952.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1958, 1963, 1967 to 1972

(In millions of dollars)

1972 code	Product class	1972	1971 <sup>1</sup>	1970 <sup>1</sup>	1969 <sup>1</sup>	1968 <sup>1</sup>	1967	1963	1958
3991	Brooms and brushes.....	391.8	332.8	320.8	322.0	304.0	295.1	247.7	208.1
39911	Brooms.....	60.5	43.3	43.7	(31.0)	(27.1)	37.5	38.0	33.7
39912	Paint and varnish brushes.....	112.6	107.4	98.4	98.2	96.4	88.6	73.6	60.7
39913	Other brushes.....	186.4	152.9	154.0	168.5	159.1	142.3	126.0	103.4
39910	Brooms and brushes, n.s.k.....	32.3	29.2	(24.7)	24.3	21.4	26.8	10.1	10.3
3993	Signs and advertising displays.....	1,089.2	818.3	848.4	888.8	798.0	800.6	583.8	407.9
39931	Luminous tubing and bulb signs.....	198.7	187.0	185.6	221.0	198.4	176.5	144.5	99.9
39932	Nonelectric signs and advertising displays.....	445.9	328.9	368.0	401.2	363.7	349.3	302.3	193.5
39933	Advertising specialties.....	155.7	160.4	(181.1)	113.0	97.1	115.0	83.7	64.4
39930	Signs and advertising displays, n.s.k.....	288.9	142.0	(113.7)	153.6	138.8	159.8	53.3	50.3
3995	Burial caskets.....	387.9	350.5	349.6	329.8	310.5	288.0	267.4	217.7
39951	Metal caskets and coffins, lined and trimmed, adult <sup>2</sup> .....	211.2	178.5	166.0	162.9	149.1	133.7	123.6	85.2
39952	Wood caskets and coffins, lined and trimmed, adult <sup>2</sup> .....	68.7	59.0	(56.1)	63.8	69.9	59.8	67.3	70.0
39953	Other caskets and coffins and metal vaults.....	67.8	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
39950	Burial caskets, n.s.k.....	40.2	30.2	(32.4)	26.7	19.7	25.8	12.4	9.3
39960	Hard surface floor coverings.....	300.3	245.6	214.7	210.1	199.6	191.6	168.1	151.9
3999	Manufacturing industries, n.e.c.....	1,455.3	1,253.4	1,220.5	1,015.2	945.0	922.4	694.0	554.2
39991	Chemical fire extinguishing equipment and parts.....	125.7	98.7	91.8	92.2	92.6	94.6	52.3	46.8
39992	Coin-operated amusement machines.....	91.1	67.5	52.3	51.7	50.9	47.7	30.0	39.1
39993	Matches.....	81.6	80.7	73.4	76.5	71.4	66.2	64.8	68.0
39994	Candles.....	100.8	83.5	80.7	66.5	61.1	55.1	43.7	31.7
39995	Lampshades.....	36.9	51.9	(48.3)	(31.7)	(31.1)	27.4	35.9	33.8
39996	Furs, dressed and dyed.....	42.3	25.1	(24.6)	46.5	46.8	39.8	43.6	28.9
39997	Umbrellas, parasols, and canes.....	37.8	37.4	(39.5)	41.2	42.1	40.3	34.1	34.7
39999	Other miscellaneous fabricated products, n.e.c.....	621.6	674.0	670.6	470.6	(411.6)	390.5	327.6	271.2
39990	Manufactured products, n.e.c., n.s.k.....	317.5	134.6	(139.3)	138.3	137.4	160.9	62.0	

<sup>1</sup>These figures are estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures and, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. The figures shown in parentheses for the value of shipments either have associated standard errors exceeding 15 percent or are not consistent with other Census series and related data. Thus, at the individual product-class level, the estimates may be of limited reliability; however, they may be combined with other product-class totals into broader aggregates which are of acceptable reliability.

<sup>2</sup>The individual product codes included in this class of products for 1972 differ significantly from prior years. Products shifting out of this class of products represent more than 15 percent of the total shipments value at the U.S. level.

<sup>3</sup>The individual product codes included in this class of products for 1972 were included in product classes 39951 and 39952 for 1971 and prior years.

TABLE 7A. Materials Consumed, by Kind: 1972 and 1967

(See appendix, Explanation of Terms)

1972 code	Material	Unit of measure	1972		1967	
			Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	(Materials consumed data are not applicable for industries 3991, 3993, and 3995.)					
	INDUSTRY 3996.--HARD-SURFACE FLOOR COVERING					
	Materials, containers, and supplies, total.....		(X)	<sup>1</sup> 126.3	(X)	83.8
149971	Asbestos, crude, including fiber.....	1,000 s. tons.	(D)	(D)	(D)	(D)
207010	Vegetable oils, including crude and processed.....	Million lb....	(D)	(D)	(D)	(D)
282137	Vinyl and vinyl copolymer resins, all forms.....	...do.....	188.4	28.0	(D)	(D)
280023	Pigment, organic and inorganic.....	...do.....	13.3	3.8	29.6	5.1
970099	All other materials, parts, containers, and supplies.....	.....	(X)	88.4	(X)	<sup>1</sup> 78.3
976000	Materials, containers, supplies, n.s.k. <sup>2</sup> .....	.....	(X)	.6	(X)	.4
	INDUSTRY 3999.--MANUFACTURING INDUSTRIES, N.E.C.					
	Materials, parts, containers, and supplies, total.....		(X)	593.7	(X)	357.4
	Mill shapes and forms:					
331001	Carbon steel.....	1,000 s. tons.	53.0	14.7	29.3	7.0
331020	Alloy steel.....	...do.....	15.0	5.0	7.4	3.7
	Stainless steel:					
331033	Sheet and strip.....	...do.....	4.7	6.5		
331050	All other stainless steel mill shapes and forms.....	...do.....	(NA)	1.0	7.3	6.5
335001	Aluminum and aluminum-base alloy.....	Million lb....	(NA)	5.6	5.9	3.7
335105	Copper and copper-base alloy.....	...do.....	3.9	3.4	11.1	8.5
336200	Copper and copper-base alloy castings (rough and semifinished) <sup>3</sup> ..	...do.....	1.4	2.9	3.7	3.5
970099	All other materials and components, parts, containers, and supplies consumed.....	.....	(X)	280.5	(X)	164.4
976000	Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....	.....	(X)	274.1	(X)	160.1

(X) Not applicable. (NA) Not available. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes cost for materials indicated by the symbol (D).<sup>2</sup>This item represents the total cost of materials for establishments that did not report detailed materials data. Also includes estimates for companies that were not mailed report forms.<sup>3</sup>Excludes quantities produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed: 1971

(See appendix, Explanation of Terms)

1972 code	Item	Unit of measure	1971	
			Quantity	Cost  (million dollars)
	INDUSTRY 3995.--BURIAL CASKETS			
	Purchased fuels and electric energy.....		(X)	5.9
	Purchased fuels, total.....		(X)	2.9
121005	Coal.....	1,000 s. tons.....	7.9	.
331212	Coke.....	...do.....	-	.
	Fuel oil, total.....	1,000 bbl (42 gal)	36.4	.
291141	Distillate.....	...do.....	25.1	.
291151	Residual.....	...do.....	11.3	(Z)
131300	Natural gas.....	Billion ft <sup>3</sup> .....	3.0	1.
960011	Other fuels.....		(X)	.
975000	Fuels, n.s.k.....		(X)	1.
960012	Purchased electric energy.....	Million kWh.....	142.3	3.
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	.
	Total energy used for heat and power.....	Bil. kWh equiv....	1.6	.
	INDUSTRY 3996.--HARD SURFACE FLOOR COVERINGS			
	Purchased fuels and electric energy.....		(X)	4.9
	Purchased fuels, total.....		(X)	2.9
121005	Coal.....	1,000 s. tons.....	4.9	.
331212	Coke.....	...do.....	-	.
	Fuel oil, total.....	1,000 bbl (42 gal)	346.1	1.
291141	Distillate.....	...do.....	136.0	.
291151	Residual.....	...do.....	210.2	.
131300	Natural gas.....	Billion ft <sup>3</sup> .....	.9	.
960011	Other fuels.....		(X)	.
975000	Fuels, n.s.k.....		(X)	(Z)
960012	Purchased electric energy.....	Million kWh.....	150.0	1.
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	.
	Total energy used for heat and power.....	Bil. kWh equiv....	1.2	.
	INDUSTRY 3999.--MANUFACTURING INDUSTRIES, N.E.C.			
	Purchased fuels and electric energy.....		(X)	10.9
	Purchased fuels, total.....		(X)	4.9
121005	Coal.....	1,000 s. tons.....	14.9	.
331212	Coke.....	...do.....	-	.
	Fuel oil, total.....	1,000 bbl (42 gal)	226.7	1.
291141	Distillate.....	...do.....	152.4	.
291151	Residual.....	...do.....	74.3	.
131300	Natural gas.....	Billion ft <sup>3</sup> .....	1.9	1.
960011	Other fuels.....		(X)	.
975000	Fuels, n.s.k.....		(X)	1.
960012	Purchased electric energy.....	Million kWh.....	441.4	6.
	Quantity of electric energy generated less quantity sold....	...do.....	(S)	.
	Total energy used for heat and power.....	Bil. kWh equiv....	2.5	.

Note: In 1967, data for manufactured mixed gas, blast furnace gas, and coke oven gas were included in code 131300, natural gas. In 1971, data for these gases were included in code 960011, other fuels.

- Represents zero. (X) Not applicable. (S) Withheld because the estimates did not meet publication standards.  
(Z) Less than half of the unit of measurement shown.





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## APPENDIX A. Explanation of Terms

**Employment and Payrolls**—The census of manufactures provides information on employment and payrolls at operating establishments and central administrative offices and auxiliaries. On the standard forms for manufacturing establishments, the number of production workers by quarter and all other employees during the pay period including March 12 was requested. Form NC-X6, "Central Administrative Office or Auxiliary Establishment," called for employment as of March 12 only. Both forms called for salaries and wages paid for the year.

**All Employees**—This category comprises all full-time and part-time employees who worked or received pay for any part of the pay periods including the 12th of the months specified on the report forms. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, however, are excluded.

In special cases, respondents were instructed to exclude agricultural or fishery employment and related data from their reports. These were sugar mills operated as part of plantations, canning or freezing plants operated in conjunction with farms, and fish processing plants engaged in fishing.

**Production and Related Workers**—This category includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level were excluded from this category.

**All Other Employees**—These are defined as nonproduction personnel, including employees engaged in the following activities: Factory supervision above the working foreman level, sales (including driver-salesmen), sales delivery (highway truckdrivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

**Average Employment**—The number of production workers as shown in the census tabulations is an average of the four quarterly figures reported by manufacturing plants. The "all employees" figure is the sum of this average and the reported number of other employees as of March 12.

**Payrolls**—This category includes the gross annual earnings of employees on the payroll. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. This definition includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll.

The 1972 census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. This definition does not include supplementary labor costs such as employer's Social Security contributions and other legally required expenditures or payments for voluntary programs. Data on such supplementary labor costs were collected in the ASM and are scheduled for publication in the ASM reports, but are not included in the census reports.

**Man-Hours**—This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours at the plant including actual overtime hours—not straight-time equivalent hours. It excludes hours paid for vacations, holidays, or sick leave, when the employee was not actually at the plant. Where employees elected to work during the vacation period, the actual hours worked by such employees were reported.

**Cost of Materials, Etc., Consumed**—A summary inquiry on form MA-100 and the other manufacturing establishment report forms requested information on the cost of materials, supplies, semifinished goods, fuels, and electric energy actually consumed or put into production during the year and the cost of products purchased for resale, whether purchased, withdrawn from inventories, or received from other establishments of the company. Included, also, are the costs of materials supplied by the establishment which were processed elsewhere on contract for the establishment. "Cost" was defined as the direct charges actually paid or payable for items consumed or

put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring the materials.

To arrive at the industry total "cost of materials, etc.,"<sup>1</sup> separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies consumed or put into production, (b) the amount paid for electric energy purchased, (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity, (d) the cost of work done by others on materials or parts furnished by the reporting establishment (contract work), and (e) the cost of products bought and resold in the same condition.

It should be noted that the cost of fuel consumed under (c), above, does not include fuel used as a material in the manufacturing process; for example, coal used in the production of coke. Such costs are included with other materials cost in category (a), above.

The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and developmental, research, and consulting services of other establishments. It also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc., and materials, machinery, and equipment used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts.

For materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), respondents were asked to value the items at their full economic value as produced, plus freight and other direct handling charges. The respondents were asked to check, where possible, that the cost equaled the value of shipments reported for the items by the company's plant which produced and transferred the goods, plus freight and other direct charges.

**Value of Shipments**—Except in a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. For a few industries, specifically noted in the text of the industry chapters, Volume II, delivered prices were requested if delivery by employees of the establishment was a routine practice, as in the milk and bakery industries.

For most industries, value of shipments is readily available from accounting records and is closely related to the value of production. In a small group of industries, however, value of production or of work done was requested. This instruction was of particular importance in the aircraft and shipbuilding industries, where the shipments or deliveries of complete units

may be a poor approximation of the work actually done during a given year.

Manufacturers were asked to include as products shipped not only the products made in the establishment but also those made elsewhere under contract from the materials owned by the establishment. Included were all products sold, transferred to other parts of the same company, or shipped on consignment. The duplication in value of shipments and cost of materials arising because of the shipment of semifinished products among manufacturing plants is discussed in part III of the Introduction, which also includes comments on the valuation of intracompany shipments by multiunit firms.

**Miscellaneous Receipts**—In addition, manufacturers reported receipts for contract work performed for others, resales (that is, the value of all products resold without further processing), receipts for miscellaneous activities such as sale of scrap and refuse, and the value of installation and repair work performed by the plant employees. Although the value of products bought and resold without further processing is included in the value of shipments totals for each industry, it is excluded from the figures for individual products or classes of products.

**Value Added by Manufacture**—This figure is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and contract work done by others) from the value of shipments, including resales, and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.<sup>2</sup>

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

**Inventories**—The value of beginning-of-year and end-of-year inventories held by each manufacturing establishment was obtained in the 1972 census. Separate inventory figures were requested for (1) finished products, (2) work in process, and (3) materials, supplies, fuel, and other inventories.

Respondents were asked to report their inventories at approximate current costs, if feasible; otherwise, at book value. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the value of inventories aggregated for all

<sup>1</sup>In some tables, this category is designated simply as "cost of materials."

<sup>2</sup>For a few industries (for example, aircraft and shipbuilding) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.



establishments in an industry is not precisely defined. The importance of reporting inventories on a comparable basis was emphasized in the instructions; thus the year-to-year change in inventories indicated by the census figures is of more significance than their level.

In using inventory data by stage of fabrication for all industries and at the 2-digit industry level, it should be noted that an item treated as a finished product by one establishment may be reported as a material by another establishment. For example, the finished product inventories of a steel mill would be reported as materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication for individual industries, industry groups, and all manufacturing, since these figures are merely aggregates of the figures reported by establishments.

Multiunit companies were instructed to include the inventories held by each establishment in that establishment's report. The inventory data tabulated on a geographic basis are believed, therefore, to reflect the actual physical holdings in each area, to the extent that the inventories were owned by the reporting companies. It is not clear where goods owned by one company and stored by another were reported.

Special instructions on inventories were issued for two industries in the food group. Meatpacking establishments were told to report work in process separately only if separate records were maintained; otherwise, to combine work in process with finished products. Distillers were instructed to include stocks of liquors held for aging as finished products, not as work in process.

**Capital Expenditures**—Under this heading, manufacturers were instructed to report expenditures of the type chargeable to fixed assets accounts for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year. It was suggested to the respondents that capital expenditures, as thus defined, could be computed by the following formula: The cost of additions completed during the year, plus construction in progress at the end of the year, less construction in progress at the beginning of the year. It was specified that the census definition of capital expenditures was to be used in computing the gross value of fixed assets discussed below.

Capital expenditures include the cost of plant and equipment for replacement purposes, as well as for additions to productive capacity. Cost associated with plants under construction but not in operation during the year are also included. The method of collecting data for plants under construction is described in the Introduction, section 7, "Reporting Forms." Capital expenditures do not include plant

and equipment furnished to the manufacturer without charge by governmental or private organizations. The value of rented facilities is also excluded.

**New Structures and Additions to Plant**—This category includes all construction and other land improvements, whether built on contract or by the manufacturer's own labor force. Included are major alterations; capitalized repairs; new elevators, cranes, heating and air-conditioning equipment essentially a part of buildings; fixed structures such as blast furnaces, brick kilns, fractionating towers, and shipways; and land improvements such as roads, fences, parking lots, and railroad spurs.

**New Machinery and New Equipment**—This category includes production and all other machinery and equipment. Included are motors, lathes, presses, looms, and other production machinery; office machines and fixtures; furniture; and automobiles, trucks, and handling equipment. Major repairs or improvement to existing equipment are included if the cost is capitalized, as well as equipment manufactured by the plant for use in its own production.

**Used Plant and Equipment**—This category represents expenditures for old or existing plants and for secondhand equipment acquired from others. Transfers of used equipment between plants of multiunit companies are included. The companies were instructed to report such transfers at their current value rather than original cost. The Census Bureau estimates of capital expenditures as compared to those published in the joint Bureau of Economic Analysis—Securities and Exchange Commission survey are discussed in the Introduction.

**Fuels and Electric Energy**—Separate data were collected in the census for coal, coke, fuel oil, gas, and other fuels used for heat and power; purchased electric energy, electric energy generated by manufacturing establishments; and energy generated less the amount sold. Fuels used as a raw material (as coal in the production of coke) are included in the cost of materials rather than in the fuel category.

**Assets and Rents**—Data on the gross value of fixed assets owned and rental payments for leased fixed assets were collected in the ASM. These figures are schedule J for publication in the ASM series, but are not included in the census volumes.<sup>3</sup>

<sup>3</sup> Earlier reports on these topics include chapter 9 of volume I, Summary Statistics, in the 1958 census, and chapter 7 of the ASM volumes for 1964-1965, 1968-1969, and 1970-1971.



## APPENDIX B Composition of Industries in the 1972 Standard Industrial Classification

The censuses of manufactures for 1972 and 1967 covered all establishments engaged in manufacture as defined, respectively, in the **Standard Industrial Classification Manual (SIC)**, 1972 edition, issued by the Office of Management and Budget. The 1972 edition contained major revisions in the SIC Manual for the manufacturing industries additional to those issued between 1957 and 1967.

For 1972, of the 422 manufacturing industries as defined in 1967, 121 were changed in some manner in 1972. This

appendix cites only those industries affected by a revision between 1967 and 1972. Presented in two parts, this appendix lists, in part 1A, the industries as defined for 1972 in terms of their 1967 equivalents and, in part 2A, the industries of 1967 in terms of their 1972 equivalents. The distribution of the 1972 SIC industries among the 1967 SIC industries is shown in part 1B. The distribution of the 1967 SIC industries among the 1972 SIC industries is shown in part 2B.

### PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2011	Meatpacking plants (excludes slaughter of nonfood animals; excludes canned baby food meats) . . . . .	2011 pt.	Meatpacking plants.
2013	Sausages and other prepared meats (excludes canned baby food meats) . . . . .	2013 pt.	Sausages and other prepared meats.
2016	Poultry dressing plants . . . . .	2015	Poultry dressing plants.
2017	Poultry and egg processing . . . . .		
2032	Canned specialties:		
	Baby food meats . . . . .	2011 pt.	Meatpacking plants.
	Except baby food meats . . . . .	2013	Sausage and other prepared meats.
2037	Frozen fruits and vegetables . . . . .	2032	Canned specialties.
2038	Frozen specialties . . . . .	2037	Frozen fruits and vegetables.
2047	Dog, cat, and other pet food:		
	From nonfood animals slaughtered in the same plant . . . . .	2011 pt.	Meatpacking plants.
	Other . . . . .	2042 pt.	Prepared feeds for animals and fowls.
2048	Prepared feeds, n.e.c. (excludes pet food) . . . . .	2042 pt.	Prepared feeds for animals and fowls.
2065	Confectionery products <sup>1</sup> . . . . .	2071	Confectionery products.
2066	Chocolate and cocoa products <sup>1</sup> . . . . .	2072	Chocolate and cocoa products.
2067	Chewing gum . . . . .	2073	Chewing gum.
2074	Cottonseed oil mills <sup>1</sup> . . . . .	2091	Cottonseed oil mills.
2075	Soybean oil mills <sup>1</sup> . . . . .	2092	Soybean oil mills.
2076	Vegetable oil mills, n.e.c. <sup>1</sup> . . . . .	2093	Vegetable oil mills, n.e.c.

See footnotes at end of table.



APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2077	Animal and marine fats and oils <sup>1</sup> .....	2094	Animal and marine fats and oils.
2079	Shortening and cooking oils <sup>1</sup> .....	2096	Shortening and cooking oils.
2091	Canned and cured seafoods <sup>1</sup> .....	2031	Canned and cured seafoods.
2092	Fresh or frozen packaged fish <sup>1</sup> .....	2036	Fresh or frozen packaged fish.
2257	Circular knit fabric mills .....	2256	Knit fabric mills.
2258	Warp knit fabric mills .....		
2297	Nonwoven fabrics .....	2299 pt.	Textile goods, n.e.c.
2299	Textile goods, n.e.c.:		
	Scouring and combing .....	2297	Scouring and combing plants.
	Except nonwoven fabrics .....	2299 pt.	Textile goods, n.e.c.
2426	Hardwood dimension and flooring:		
	Except wood furniture frames .....	2426	Hardwood dimension and flooring.
	Wood furniture frames .....	2512 pt.	Upholstered household furniture.
2431	Millwork (excludes kitchen cabinets to be built-in) .....	2431 pt.	Millwork.
2434	Wood kitchen cabinets:		
	To be built-in .....	2431 pt.	Millwork.
	Other .....	2511 pt.	Wood household furniture.
2435	Hardwood veneer and plywood .....	2432	Veneer and plywood.
2436	Softwood veneer and plywood .....		
2439	Structural wood members, n.e.c. ....	2433 pt.	Prefabricated wood structures.
2448	Wood pallets and skids .....	2499 pt.	Wood products, n.e.c.
2449	Wood containers, n.e.c. ....	2442	Wirebound boxes and crates.
		2443	Veneer and plywood containers.
		2445	Cooperage.
2451	Mobile homes .....	3791 pt.	Trailer coaches.
2452	Prefabricated wood buildings .....	2433 pt.	Prefabricated wood structures.
2492	Particleboard .....		
2499	Wood products, n.e.c. (excludes pallets, skids, and particleboard) .....	2499 pt.	Wood products, n.e.c.
2511	Wood household furniture (excludes television, radio, phonograph and sewing machine cabinets and kitchen cabinets) .....	2511 pt.	Wood household furniture.
2512	Upholstered household furniture (excludes wood furniture frames) .....	2512 pt.	Upholstered household furniture.
2517	Wood TV and radio cabinets .....	2511 pt.	Wood household furniture.
2648	Stationery products .....	2649 pt.	Converted paper products, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2649	Converted paper products, n.e.c.:		
	Wallpaper . . . . .	2644	Wallpaper.
	Other (excludes stationery and related items) . . .	2649 pt.	Converted paper products, n.e.c.
2751	Commercial printing, letterpress . . . . .	2751 pt.	Commercial printing, except lithographic.
2752	Commercial printing, lithographic (excludes lithographic plates) . . . . .	2752 pt.	Commercial printing, lithographic.
2754	Commercial printing, gravure . . . . .	2751 pt.	Commercial printing, except lithographic.
2795	Lithographic platemaking services . . . . .	2752 pt.	Commercial printing, lithographic.
2819	Industrial inorganic chemicals, n.e.c.:		
	Sulfur extracted from sour gas . . . . .	1311 pt.	Crude petroleum and natural gas.
	Industrial inorganic chemicals (excludes phosphoric acid and diammonium phosphate; household bleaches; nitric acid; anhydrous ammonia and other nitrogenous fertilizer materials) . . . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
2821	Plastics materials and resins (excludes adhesives; custom compounding of resins; and sheets, rods, and similar basic forms) . . . . .	2821 pt.	Plastics materials and resins.
2842	Polishes and sanitation goods:		
	Household bleaches . . . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Except household bleaches (excludes pesticidal preparations) . . . . .	2842 pt.	Polishes and sanitation goods.
2851	Paints and allied products (excludes calking compounds) . . . . .	2851 pt.	Paints and allied products.
2865	Cyclic crudes and intermediates <sup>1</sup> . . . . .	2815	Cyclic intermediates and crudes.
2869	Industrial organic chemicals, n.e.c. (excludes urea) . . . . .	2818 pt.	Industrial organic chemicals, n.e.c.
2873	Nitrogenous fertilizers:		
	Urea . . . . .	2818 pt.	Industrial organic chemicals, n.e.c.
	Anhydrous ammonia, nitric acid, and other nitrogenous fertilizer materials . . . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Natural organic fertilizers except compost . . . . .	2871 pt.	Fertilizers.
2874	Phosphatic fertilizers:		
	Phosphoric acid and diammonium phosphate . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Except phosphoric acid, etc . . . . .	2871 pt.	Fertilizers.
2875	Fertilizers, mixing only <sup>1</sup> . . . . .	2872	Fertilizers, mixing only.

See footnotes at end of table.

# APPENDIX B—Continued

## PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
2879	Agricultural chemicals, n.e.c.:		
	Household pesticidal preparations . . . . .	2842 pt.	Polishes and sanitation goods.
	Except household pesticidal preparations . . . . .	2879	Agricultural chemicals, n.e.c.
2891	Adhesives and sealants:		
	Adhesives from plastics resins produced in the same establishment . . . . .	2821 pt.	Plastics materials and resins.
	Calking compounds . . . . .	2851 pt.	Paints and allied products.
	Adhesives . . . . .	2891 pt.	Adhesives and gelatin.
	Sealants, n.e.c. . . . .	2899 pt.	Chemical preparations, n.e.c.
	Linoleum and tile cement . . . . .	2952 pt.	Asphalt felts and coatings.
	Rubber cement . . . . .	3069 pt.	Fabricated rubber products, n.e.c.
2899	Chemical preparations, n.e.c.:		
	Gelatin and sizes . . . . .	2891 pt.	Adhesives and gelatin.
	Except gelatin and sizes (excludes sealants) . . . . .	2899 pt.	Chemical preparations, n.e.c.
2911	Petroleum refining (excludes rerefining of oils and greases) . . . . .	2911 pt.	Petroleum refining.
2952	Asphalt felts and coatings (excludes linoleum and tile cement) . . . . .	2952 pt.	Asphalt felts and coatings.
2992	Lubricating oils and greases:		
	Rerefining of oils and greases . . . . .	2911 pt.	Petroleum refining.
	Other . . . . .	2992	Lubricating oils and greases.
3021	Rubber and plastics footwear:		
	Rubber . . . . .	3021	Rubber footwear.
	Plastics . . . . .	3079 pt.	Miscellaneous plastics products.
3041	Rubber and plastics hose and belting:		
	Rubber . . . . .	3069 pt.	Fabricated rubber products, n.e.c.
	Plastics . . . . .	3079 pt.	Miscellaneous plastics products.
3069	Fabricated rubber products, n.e.c. (excludes rubber cement, rubber packing and rubber hose and belting) . . . . .	3069 pt.	Fabricated rubber products, n.e.c.
3079	Miscellaneous plastics products:		
	Rod, sheet, etc., from resins produced in the same plant; custom compounding of purchased resins; regenerated cellulosic products, except rayon . . . . .	2821 pt.	Plastics materials and resins.
	Miscellaneous plastics products (excludes plastics footwear and plastics hose and belting) . . . . .	3079 pt.	Miscellaneous plastics products.

See footnotes at end of table.



APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3143	Men's footwear, except athletic .....	3141	Shoes, except rubber.
3144	Women's footwear, except athletic .....		
3149	Footwear, except rubber, n.e.c. ....		
3199	Leather goods, n.e.c.:		
	Belting (excludes leather packing) .....	3121 pt.	Industrial leather belting.
	Except belting .....	3199	Leather goods, n.e.c.
3292	Asbestos products:		
	Asbestos products .....	3292	Asbestos products.
	Asbestos insulation .....	3293 pt.	Gaskets and insulations.
3293	Gaskets, packing and sealing devices:		
	Rubber packing .....	3069 pt.	Fabricated rubber products, n.e.c.
	Leather packing .....	3121 pt.	Industrial leather belting.
	Gaskets, all materials, and packing, n.e.c. ....	3293 pt.	Gaskets and insulations.
	Metal packing .....	3599 pt.	Miscellaneous machinery, except electrical.
3295	Minerals, ground or treated <sup>2</sup> .....	3295	Minerals, ground or treated.
3324	Steel investment foundries .....	3323	Steel foundries.
3325	Steel foundries, n.e.c. ....		
3353	Aluminum sheet, plate, and foil .....	3352	Aluminum rolling and drawing.
3354	Aluminum extruded products .....		
3355	Aluminum rolling and drawing, n.e.c. ....	3399	Primary metal products, n.e.c.
3398	Metal heat treating .....		
3399	Primarily metal products, n.e.c. ....	3491	Metal barrels, drums, and pails.
3412	Metal barrels, drums, and pails <sup>1</sup> .....		
3433	Heating equipment, except electric (excludes warm air furnaces) .....	3433 pt.	Heating equipment, except electric.
3448	Prefabricated metal buildings .....	3449	Miscellaneous metalwork.
3449	Miscellaneous metalwork .....		
3462	Iron and steel forgings <sup>1</sup> .....	3391	Iron and steel forgings.
3463	Nonferrous forgings <sup>1</sup> .....	3392	Nonferrous forgings.
3465	Automotive stampings .....	3461	Metal stampings.
3466	Crowns and closures .....		
3469	Metal stampings, n.e.c. ....		
3482	Small arms ammunition <sup>1</sup> .....	1961	Small arms ammunition.
3483	Ammunition, except for small arms, n.e.c. <sup>1</sup> .....	1929	Ammunition, except for small arms, n.e.c.
3484	Small arms <sup>1</sup> .....	1951	Small arms.
3489	Ordnance and accessories, n.e.c. ....	1911	Guns, howitzers, and mortars.
		1999	Ordnance and accessories, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3495	Wire springs .....	3481	Miscellaneous fabricated wire products.
3496	Miscellaneous fabricated wire products .....		
3499	Fabricated metal products, n.e.c. ....	3492	Safes and vaults.
		3496	Collapsible tubes.
		3499	Fabricated metal products, n.e.c.
3523	Farm machinery and equipment: Except garden tractors and lawn and garden equipment .....	3522 pt.	Farm machinery.
	Farm trailers and wagons .....	3799 pt.	Transportation equipment, n.e.c.
3524	Lawn and garden equipment .....	3522 pt.	Farm machinery.
3531	Construction machinery: Except well point systems .....	3531	Construction machinery.
	Well point systems .....		
3533	Oilfield machinery (excludes well point systems) .....	3533 pt.	Oilfield machinery.
3536	Hoists, cranes, and monorails: Except automatic stacking machines .....	3536	Hoists, cranes, and monorails.
	Automatic stacking machines .....		
3537	Industrial trucks and tractors (excludes auto- matic stacking machines) .....	3537 pt.	Industrial trucks and tractors.
3541	Machine tools, metal cutting types: Machine tools .....	3541	Machine tools, metal cutting types.
	Auto maintenance equipment, metal cutting types .....	3548 pt.	Metalworking machinery, n.e.c.
3546	Power driven handtools .....	3548 pt.	Metalworking machinery, n.e.c.
3547	Rolling mill machinery .....		
3549	Metalworking machinery, n.e.c. (excludes auto maintenance equipment, metal cutting types) ....		
3561	Pumps and pumping equipment .....	3561 pt.	Pumps and compressors.
3562	Ball and roller bearings: Bearings and parts .....	3562	Ball and roller bearings.
	Mounted bearings .....	3566 pt.	Power transmission equipment.
3563	Air and gas compressors .....	3561 pt.	Pumps and compressors.
3566	Speed changers, drives, and gears .....	3566 pt.	Power transmission equipment.
3568	Power transmission equipment, n.e.c. (excludes mounted ball and roller bearings) .....		

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3574	Calculating and accounting machines (excludes voting machines and ticket counting machines) . . .	3574 pt.	Calculating and accounting machines.
3579	Office machines, n.e.c.:		
	Voting machines and ticket counting machines . .	3574 pt.	Calculating and accounting machines.
	Except voting machines and ticket counting machines . . . . .	3579	Office machines, n.e.c.
3582	Commercial laundry equipment (excludes coin-operated washers and dryers) . . . . .	3582 pt.	Commercial laundry equipment.
3585	Refrigeration and heating equipment:		
	Warm air heating equipment . . . . .	3433 pt.	Heating equipment, except electric.
	Except warm air heating equipment . . . . .	3585	Refrigeration machinery.
3592	Carburetors, pistons, rings, valves . . . . .	3599 pt.	Miscellaneous machinery, except electrical.
3599	Machinery, except electrical, n.e.c. (excludes packing, carburetors, pistons, rings, and valves) . .		
3612	Transformers:		
	Instrument transformers . . . . .	3611 pt.	Electric measuring instruments.
	Except instrument transformers . . . . .	3612	Transformers.
3633	Household laundry equipment:		
	Coin-operated washers and dryers . . . . .	3582 pt.	Commercial laundry equipment.
	Except coin-operated washers, etc. . . . .	3633	Household laundry equipment.
3645	Residential lighting fixtures . . . . .	3642	Lighting fixtures.
3646	Commercial lighting fixtures . . . . .		
3647	Vehicular lighting equipment . . . . .		
3648	Lighting equipment, n.e.c. . . . .		
3662	Radio and TV communication equipment:		
	Sighting and fire control equipment, electronic . .	1941 pt.	Sighting and fire control equipment.
	Except sighting and fire control equipment, electronic . . . . .	3662	Radio and TV communication equipment.
3675	Electronic capacitors . . . . .	3679	Electronic components, n.e.c.
3676	Electronic resistors . . . . .		
3677	Electronic coils and transformers . . . . .		
3678	Electronic connectors . . . . .		
3679	Electronic components, n.e.c. . . . .		
3711	Motor vehicles and car bodies . . . . .	3711	Motor vehicles.
		3712	Passenger car bodies.
3713	Truck and bus bodies (excludes demountable cargo containers) . . . . .	3713 pt.	Truck and bus bodies.

See footnotes at end of table.



# APPENDIX B—Continued

## PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3715	Truck trailers:		
	Demountable cargo containers .....	3713 pt.	Truck and bus bodies.
	Truck trailers .....	3715	Truck trailers.
3724	Aircraft engines and engine parts .....	3722 pt.	Aircraft engines and engine parts.
3728	Aircraft equipment, n.e.c.:		
	Propellers and parts .....	3723	Aircraft propellers and parts.
	Except propellers and parts (excludes space vehicle equipment) .....	3729 pt.	Aircraft equipment, n.e.c.
3743	Railroad equipment .....	{ 3741	Locomotives and parts.
		3742	Railroad and street cars.
3751	Motorcycles, bicycles, and parts (excludes golf carts and other similar personnel carriers) .....	3751 pt.	Motorcycles, bicycles, and parts.
3761	Guided missiles and space vehicles <sup>1</sup> .....	1925	Complete guided missiles.
3764	Space propulsion units and parts .....	3722 pt.	Aircraft engines and engine parts.
3769	Space vehicle equipment, n.e.c. ....	3729 pt.	Aircraft equipment, n.e.c.
3792	Travel trailers and campers:		
	Except folding tent trailers (excludes mobile homes) .....	3791 pt.	Trailer coaches.
	Folding tent trailers .....	3799 pt.	Transportation equipment, n.e.c.
3795	Tanks and tank components <sup>2</sup> .....	1931	Tanks and tank components.
3799	Transportation equipment, n.e.c.:		
	Golf carts and other similar personnel carriers ...	3751 pt.	Motorcycles, bicycles, and parts.
	Transportation equipment, n.e.c. (excludes farm trailers and wagons and folding tent trailers) .....	3799 pt.	Transportation equipment, n.e.c.
3823	Process control instruments .....	} 3821 pt.	Mechanical measuring devices.
3824	Fluid meters and counting devices .....		
3825	Instruments to measure electricity (excludes instrument transformers) .....		
		3611 pt.	Electric measuring instruments.
3829	Measuring and controlling devices, n.e.c. ....	3821 pt.	Mechanical measuring devices.
3832	Optical instruments and lenses:		
	Made from purchased lenses (excludes electronic sighting and fire control equipment) .....	1941 pt.	Sighting and fire control equipment.
	From lenses made in the same plant .....	3831	Optical instruments and lenses.
3873	Watches, clocks, and watchcases .....	{ 3871	Watches and clocks.
		3872	Watchcases.

See footnotes at end of table.

APPENDIX B—Continued

PART 1A. Comparability of 1972 SIC Industries to 1967 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1972 industry		1967 industry	
SIC code	Short title	SIC code	Short title
3915	Jewelers' materials and lapidary work .....	{ 3912 3913	Jewelers' findings and materials. Lapidary work.
3944	Games, toys, and children's vehicles .....	{ 3941 3943	Games and toys. Children's vehicles, except bicycles.
3951	Pens and mechanical pencils: Except felt tip markers .....	3951	Pens and mechanical pencils.
	Felt tip markers .....	3953 pt.	Marking devices.
3953	Marking devices (excludes felt tip markers) .....	3953 pt.	Marking devices.
3995	Burial caskets (excludes other items such as clothing, embalming fluid, and various items of equipment which are classified with similar products) .....	3994 pt.	Morticians' goods.

<sup>1</sup> No change in content.

<sup>2</sup> The classification of separate establishments milling or otherwise preparing nonmetallic minerals in this division and in industry 3295 has been clarified. Industry 3295 will include only establishments crushing or grinding or otherwise preparing minerals mined in industry groups 145 and 149, and industry 1472. Establishments crushing or grinding minerals mined in industry groups 142 and 144 and industries 1473 to 1479 are included in those same industries.

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars)
2011	----	Meatpacking plants.....	2,474	863	157.5	2,968.1
2011	2011	Meatpacking plants.....	2,467	858	156.4	2,948.4
2013	2013	Sausages and other prepared meats.....	7	5	1.1	19.7
2013	----	Sausages and other prepared meats.....	1,311	557	58.1	1,099.9
2011	2011	Meatpacking plants.....	5	5	.7	14.5
2013	2013	Sausages and other prepared meats.....	1,306	552	57.4	1,085.4
2016	----	Poultry dressing plants.....	522	369	77.6	724.4
2015	2015	Poultry dressing plants.....	522	369	77.6	724.4
2017	----	Poultry and egg processing.....	130	93	14.6	168.5
2015	2015	Poultry dressing plants.....	130	93	14.6	168.5
2021	2021	Creamery butter.....	231	63	4.0	82.3
2022	2022	Cheese, natural and processed.....	872	281	25.2	492.3
2023	2023	Condensed and evaporated milk.....	283	163	12.3	467.3
2024	2024	Ice cream and frozen desserts.....	697	273	21.1	459.8
2026	2026	Fluid milk.....	2,507	1,287	126.1	2,552.4
2032	2032	Canned specialties.....	203	88	29.1	814.6
2033	2033	Canned fruits and vegetables.....	1,038	621	89.8	1,625.1
2034	2034	Dehydrated fruits, vegetables, soups.....	178	88	12.4	235.7
2035	2035	Pickles, sauces, and salad dressings.....	495	191	20.8	428.0
2037	2037	Frozen fruits and vegetables.....	208	190	42.8	694.6
2038	----	Frozen specialties.....	435	211	38.3	716.3
2037	2037	Frozen fruits and vegetables.....	435	211	38.3	716.3
2041	2041	Flour and other grain mill products.....	457	181	16.1	509.8
2043	----	Cereal breakfast foods.....	47	26	12.9	688.4
2043	2043	Cereal preparations.....	47	26	12.9	688.4
2044	2044	Rice milling.....	57	35	4.0	148.3
2045	2045	Blended and prepared flour.....	137	57	7.9	306.8
2046	2046	Wet corn milling.....	41	27	12.1	331.2
2047	----	Dog, cat, and other pet food.....	221	113	14.3	613.8
2042	2042	Prepared feeds for animals and fowls.....	221	113	14.3	613.8
2048	----	Prepared feeds, n.e.c.....	2,120	654	44.0	1,100.5
2042	2042	Prepared feeds for animals and fowls.....	2,120	654	44.0	1,100.5
2051	2051	Bread, cake, and related products.....	3,318	1,374	193.5	3,518.1
2052	2052	Cookies and crackers.....	315	177	41.1	1,018.9
2061	2061	Raw cane sugar.....	77	62	7.1	151.7
2062	2062	Cane sugar refining.....	33	28	10.9	383.9
2063	2063	Beet sugar.....	61	54	11.5	310.5
2065	----	Confectionery products.....	1,011	394	60.7	1,115.6
2071	2071	Confectionery products.....	1,011	394	60.7	1,115.6
2066	----	Chocolate and cocoa products.....	48	30	10.0	282.6
2072	2072	Chocolate and cocoa products.....	48	30	10.0	282.6
2067	----	Chewing gum.....	19	16	6.9	228.4
2073	2073	Chewing gum.....	19	16	6.9	228.4
2074	----	Cottonseed oil mills.....	115	84	5.5	88.2
2091	2091	Cottonseed oil mills.....	115	84	5.5	88.2
2075	----	Soybean oil mills.....	94	74	9.1	350.0
2092	2092	Soybean oil mills.....	94	74	9.1	350.0
2076	----	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
2093	2093	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
2077	----	Animal and marine fats and oils.....	511	196	11.6	296.7
2094	2094	Animal and marine fats and oils.....	511	196	11.6	296.7
2079	----	Shortening and cooking oils.....	109	86	12.9	512.6
2096	2096	Shortening and cooking oils.....	109	86	12.9	512.6
2082	----	Malt beverages.....	167	130	51.5	1,993.6
2082	2082	Malt liquors.....	167	130	51.5	1,993.6
2083	2083	Malt.....	40	26	1.7	55.0
2084	2084	Wines, brandy, and brandy spirits.....	213	74	9.4	407.9
2085	2085	Distilled liquor, except brandy.....	121	96	18.4	1,024.0
2086	2086	Bottled and canned soft drinks.....	2,683	1,552	121.1	2,336.7
2087	2087	Flavoring extracts and sirups, n.e.c.....	400	115	10.1	871.9
2091	----	Canned and cured seafoods.....	310	139	16.0	231.4
2031	2031	Canned and cured seafoods.....	310	139	16.0	231.4
2092	----	Fresh or frozen packaged fish.....	519	257	25.0	287.5
2036	2036	Fresh or frozen packaged fish.....	519	257	25.0	287.5



# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
2095	2095	Roasted coffee.....	213	104	12.9	825.8
2097	2097	Manufactured ice.....	818	87	6.8	91.7
2098	2098	Macaroni and spaghetti.....	194	64	7.3	155.7
2099	2099	Food preparations, n.e.c.....	2,099	658	66.2	1,805.2
2111	2111	Cigarettes.....	20	11	38.1	2,188.4
2121	2121	Cigars.....	124	51	13.5	191.9
2131	2131	Chewing and smoking tobacco.....	37	22	3.3	103.2
2141	2141	Tobacco stemming and redrying.....	91	70	11.4	153.6
2211	2211	Weaving mills, cotton.....	307	227	121.3	1,256.3
2221	----	Weaving mills, manmade fiber and silk.....	412	341	149.7	1,831.6
	2221	Weaving mills, synthetic.....	412	341	149.7	1,831.6
2231	2231	Weaving and finishing mills, wool.....	198	119	19.4	239.4
2241	2241	Narrow fabric mills.....	376	215	27.1	289.0
2251	2251	Women's hosiery, except socks.....	312	217	49.5	438.8
2252	2252	Hosiery, n.e.c.....	415	269	32.6	295.2
2253	2253	Knit outerwear mills.....	917	547	74.4	799.5
2254	2254	Knit underwear mills.....	87	74	26.0	251.5
2257	----	Circular knit fabric mills.....	716	430	68.1	1,036.0
	2256	Knit fabric mills.....	716	430	68.1	1,036.0
2258	----	Warp knit fabric mills.....	203	155	22.0	317.8
	2256	Knit fabric mills.....	203	155	22.0	317.8
2259	2259	Knitting mills, n.e.c.....	73	33	3.9	41.8
2261	2261	Finishing plants, cotton.....	196	115	25.7	322.0
2262	----	Finishing plants, manmade fiber and silk.....	258	189	35.2	521.5
	2262	Finishing plants, synthetics.....	258	189	35.2	521.5
2269	2269	Finishing plants, n.e.c.....	201	128	18.5	270.4
2271	2271	Woven carpets and rugs.....	65	18	6.5	93.2
2272	2272	Tufted carpets and rugs.....	379	235	50.1	926.8
2279	2279	Carpets and rugs, n.e.c.....	85	27	3.3	58.2
2281	2281	Yarn mills, except wool.....	424	357	89.6	867.2
2282	2282	Throwing and winding mills.....	212	169	38.0	477.8
2283	2283	Wool yarn mills.....	98	63	8.3	92.7
2284	2284	Thread mills.....	73	45	11.7	141.8
2291	----	Felt goods, except woven felts and hats.....	47	30	5.0	80.5
	2291	Felt goods, n.e.c.....	47	30	5.0	80.5
2292	2292	Lace goods.....	105	29	2.9	29.4
2293	2293	Paddings and upholstery filling.....	132	59	4.4	64.5
2294	2294	Processed textile waste.....	106	37	3.6	50.9
2295	2295	Coated fabrics, not rubberized.....	203	132	18.0	382.4
2296	2296	Tire cord and fabric.....	18	18	10.0	145.8
2297	----	Nonwoven fabrics.....	84	67	10.8	191.8
	2299	Textile goods, n.e.c.....	84	67	10.8	191.8
2298	2298	Cordage and twine.....	156	81	9.0	96.3
2299	----	Textile goods, n.e.c.....	345	79	8.3	107.7
	2297	Scouring and combing plants.....	48	27	3.4	39.1
	2299	Textile goods, n.e.c.....	297	52	4.8	68.7
2311	2311	Men's and boys' suits and coats.....	856	570	124.8	1,342.2
2321	2321	Men's and boys' shirts and nightwear.....	730	563	113.4	1,003.8
2322	2322	Men's and boys' underwear.....	94	73	16.0	130.9
2323	2323	Men's and boys' neckwear.....	299	135	11.1	143.4
2327	2327	Men's and boys' separate trousers.....	624	428	91.3	784.9
2328	----	Men's and boys' work clothing.....	503	435	89.6	784.8
	2327	Men's and boys' separate trousers.....	3	3	1.8	23.7
	2328	Men's and boys' work clothing.....	500	432	87.8	761.1

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
2329	----	Men's and boys' clothing, n.e.c.....	537	366	42.0	393.8
	2311	Men's and boys' suits and coats.....	4	4	1.0	27.4
	2329	Men's and boys' clothing, n.e.c.....	533	362	40.9	366.4
2331	2331	Women's and misses' blouses and waists.....	971	703	63.0	592.4
2335	2335	Women's and misses' dresses.....	5,565	2,978	211.6	1,888.7
2337	2337	Women's and misses' suits and coats.....	1,617	1,022	75.9	839.8
2339	2339	Women's and misses' outerwear, n.e.c.....	1,373	897	82.1	781.0
2341	2341	Women's and children's underwear.....	730	484	77.5	709.0
2342	----	Brassieres and allied garments.....	272	193	28.0	340.0
	2342	Corsets and allied garments.....	272	193	28.0	340.0
2351	2351	Millinery.....	216	52	3.2	33.2
2352	2352	Hats and caps, except millinery.....	280	122	11.3	100.2
2361	2361	Children's dresses and blouses.....	490	353	35.4	335.8
2363	2363	Children's coats and suits.....	165	105	9.2	90.4
2369	2369	Children's outerwear, n.e.c.....	406	265	30.1	282.9
2371	2371	Fur goods.....	797	48	4.7	86.2
2381	2381	Fabric dress and work gloves.....	137	94	11.9	100.3
2384	2384	Robes and dressing gowns.....	179	110	10.0	92.5
2385	2385	Waterproof outer garments.....	258	165	15.4	168.8
2386	2386	Leather and sheep lined clothing.....	187	91	7.0	82.1
2387	2387	Apparel belts.....	297	132	10.3	132.5
2389	2389	Apparel and accessories, n.e.c.....	244	87	7.3	59.7
2391	2391	Curtains and draperies.....	1,592	351	33.9	302.3
2392	2392	Housefurnishings, n.e.c.....	1,112	414	50.3	585.2
2393	2393	Textile bags.....	208	94	7.9	74.5
2394	----	Canvas and related products.....	860	146	12.9	130.3
	2394	Canvas products.....	860	146	12.9	130.3
2395	2395	Pleating and stitching.....	898	205	16.7	174.7
2396	2396	Automotive and apparel trimmings.....	668	203	27.6	530.8
2397	2397	Schiffli machine embroideries.....	451	56	5.5	75.0
2399	2399	Fabricated textile products, n.e.c.....	822	286	31.4	315.5
2411	2411	Logging camps and logging contractors.....	13,238	696	80.0	1,163.4
2421	2421	Sawmills and planing mills, general.....	8,071	1,717	166.6	2,906.0
2426	----	Hardwood dimension and flooring.....	933	364	31.5	272.1
	2426	Hardwood dimension and flooring.....	612	285	25.6	223.0
	2512	Upholstered household furniture.....	321	79	5.9	49.1
2429	2429	Special product sawmills, n.e.c.....	447	86	6.4	80.4
2431	2431	Millwork.....	2,434	720	70.5	962.7
2434	----	Wood kitchen cabinets.....	1,796	396	38.8	486.7
	2431	Millwork.....	893	225	17.1	201.0
	2511	Wood household furniture.....	903	171	21.7	285.7
2435	----	Hardwood veneer and plywood.....	366	254	25.1	340.8
	2432	Veneer and plywood.....	366	254	25.1	340.8
2436	----	Softwood veneer and plywood.....	232	225	43.7	935.4
	2432	Veneer and plywood.....	232	225	43.7	935.4
2439	----	Structural wood members, n.e.c.....	678	196	12.6	182.8
	2433	Prefabricated wood structures.....	678	196	12.6	182.8
2441	----	Nailed wood boxes and shook.....	436	130	10.7	103.8
	2441	Nailed wooden boxes and shook.....	436	130	10.7	103.8
2448	----	Wood pallets and skids.....	456	271	14.3	140.9
	2499	Wood products, n.e.c.....	456	271	14.3	140.9
2449	----	Wood containers, n.e.c.....	268	100	11.9	114.1
	2442	Wirebound boxes and crates.....	136	58	7.7	71.2
	2443	Veneer and plywood containers.....	60	25	1.9	13.1
	2445	Cooperage.....	72	17	2.3	29.8

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)		(1,000)	(million dollars)
2451	----	Mobile homes.....	683	589	71.9	1,033.9
	3791	Trailer coaches.....	683	589	71.9	1,033.9
2452	----	Prefabricated wood buildings.....	310	245	25.2	457.1
	2433	Prefabricated wood structures.....	310	245	25.2	457.1
2491	2491	Wood preserving.....	399	168	11.3	175.8
2492	----	Particleboard.....	68	65	7.7	144.5
	2499	Wood products, n.e.c.....	68	65	7.7	144.5
2499	2499	Wood products, n.e.c.....	3,133	646	63.0	809.1
2511	2511	Wood household furniture.....	2,348	827	133.8	1,556.9
2512	2512	Upholstered household furniture.....	1,308	770	92.0	1,104.0
2514	2514	Metal household furniture.....	467	230	34.4	447.2
2515	2515	Mattresses and bedsprings.....	977	370	31.4	479.9
2517	----	Wood TV and radio cabinets.....	103	65	18.9	176.9
	2511	Wood household furniture.....	103	65	18.9	176.9
2519	2519	Household furniture, n.e.c.....	166	73	6.9	95.6
2521	2521	Wood office furniture.....	240	104	11.5	146.7
2522	2522	Metal office furniture.....	193	118	27.8	513.2
2531	----	Public building and related furniture.....	421	194	21.0	288.3
	2531	Public building furniture.....	421	194	21.0	288.3
2541	2541	Wood partitions and fixtures.....	1,503	413	31.2	458.6
2542	2542	Metal partitions and fixtures.....	507	239	26.2	412.4
2591	----	Drapery hardware and blinds and shades.....	505	66	12.1	198.2
	2591	Venetian blinds and shades.....	505	66	12.1	198.2
2599	2599	Furniture and fixtures, n.e.c.....	494	177	14.5	211.7
2611	2611	Pulpmills.....	60	35	10.6	306.9
2621	2621	Papermills, except building paper.....	349	295	129.9	2,909.3
2631	2631	Paperboard mills.....	273	248	68.5	1,994.4
2641	2641	Paper coating and glazing.....	426	217	37.2	984.4
2642	2642	Envelopes.....	247	183	22.9	347.1
2643	2643	Bags, except textile bags.....	583	331	48.6	840.5
2645	2645	Die-cut paper and board.....	374	159	15.2	301.6
2646	2646	Pressed and molded pulp goods.....	49	38	6.1	100.6
2647	2647	Sanitary paper products.....	108	85	26.3	882.8
2648	----	Stationery products.....	431	131	14.7	225.6
	2649	Converted paper products, n.e.c.....	431	131	14.7	225.6
2649	----	Converted paper products, n.e.c.....	307	181	18.1	325.6
	2644	Wallpaper.....	83	35	3.0	50.5
	2649	Converted paper products, n.e.c.....	224	146	15.1	275.1
2651	2651	Folding paperboard boxes.....	544	376	45.3	739.7
2652	2652	Setup paperboard boxes.....	397	269	18.1	195.9
2653	2653	Corrugated and solid fiber boxes.....	1,265	959	107.9	1,736.9
2654	2654	Sanitary food containers.....	251	193	35.1	659.8
2655	----	Fiber cans, drums, and similar products.....	282	182	17.3	266.4
	2655	Fiber cans, drums, and related material.....	282	182	17.3	266.4
2661	2661	Building paper and board mills.....	92	74	11.6	246.5
2711	2711	Newspapers.....	8,116	2,119	348.5	6,219.9
2721	2721	Periodicals.....	2,534	452	66.5	2,109.9
2731	2731	Book publishing.....	1,205	307	57.1	1,935.8
2732	2732	Book printing.....	700	287	40.9	604.5
2741	2741	Miscellaneous publishing.....	2,041	272	38.8	775.8
2751	----	Commercial printing, letterpress.....	13,198	1,171	130.1	2,003.0
	2751	Commercial printing, except lithographic.....	13,198	1,171	130.1	2,003.0
2752	2752	Commercial printing, lithographic.....	8,388	2,135	184.0	3,155.1
2753	2753	Engraving and plate printing.....	560	132	9.6	152.4
2754	----	Commercial printing, gravure.....	135	88	20.0	372.2
	2751	Commercial printing, except lithographic.....	135	88	20.0	372.2



# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
2761	2761	Manifold business forms.....	667	376	38.6	823.6
2771	2771	Greeting card publishing.....	199	82	23.5	527.0
2782	2782	Blankbooks and looseleaf binders.....	461	240	26.6	390.6
2789	2789	Bookbinding and related work.....	1,004	301	25.1	296.2
2791	2791	Typesetting.....	1,887	373	26.0	426.0
2793	2793	Photoengraving.....	590	135	9.9	191.7
2794	2794	Electrotyping and stereotyping.....	81	24	1.7	28.5
2795	----	Lithographic platemaking services.....	336	124	8.9	185.1
	2752	Commercial printing, lithographic.....	336	124	8.9	185.1
2812	2812	Alkalies and chlorine.....	48	39	13.3	455.6
2813	2813	Industrial gases.....	503	138	9.6	466.7
2816	2816	Inorganic pigments.....	114	69	12.8	382.6
2819	2819	Industrial inorganic chemicals, n.e.c.....	384	264	63.8	2,038.2
2821	2821	Plastics materials and resins.....	323	263	54.8	2,160.5
2822	2822	Synthetic rubber.....	59	34	11.8	491.7
2823	2823	Cellulosic manmade fibers.....	18	12	17.1	243.5
2824	2824	Organic fibers, noncellulosic.....	61	55	78.2	2,039.8
2831	2831	Biological products.....	182	62	10.1	231.4
2833	2833	Medicinals and botanicals.....	140	51	7.8	260.0
2834	2834	Pharmaceutical preparations.....	756	312	112.0	5,639.5
2841	2841	Soap and other detergents.....	642	199	31.5	2,038.8
2842	----	Polishes and sanitation goods.....	1,108	243	25.1	1,118.1
	2819	Industrial inorganic chemicals, n.e.c.....	329	51	3.9	181.1
	2842	Polishes and sanitation goods.....	779	192	21.1	937.0
2843	2843	Surface active agents.....	178	86	6.9	209.5
2844	2844	Toilet preparations.....	645	204	48.2	2,834.1
2851	2851	Paints and allied products.....	1,599	687	65.9	1,791.7
2861	2861	Gum and wood chemicals.....	139	41	5.9	155.4
2865	----	Cyclic crudes and intermediates.....	174	118	28.2	929.7
	2815	Cyclic intermediates and crudes.....	174	118	28.2	929.7
2869	----	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
	2818	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
2873	----	Nitrogenous fertilizers.....	73	68	9.4	447.6
	2818	Industrial organic chemicals, n.e.c.....	7	7	1.3	85.6
	2819	Industrial inorganic chemicals, n.e.c.....	66	61	8.1	362.0
2874	----	Phosphatic fertilizers.....	145	115	14.9	426.4
	2819	Industrial inorganic chemicals, n.e.c.....	9	6	.9	22.8
	2871	Fertilizers.....	136	109	14.0	403.6
2875	----	Fertilizers, mixing only.....	627	188	11.4	263.6
	2871	Fertilizers.....	14	2	.3	6.6
	2872	Fertilizers, mixing only.....	613	186	11.1	257.1
2879	----	Agricultural chemicals, n.e.c.....	388	113	12.2	598.9
	2842	Polishes and sanitation goods.....	89	15	.8	41.6
	2879	Agricultural chemicals, n.e.c.....	299	98	11.4	557.3
2891	----	Adhesives and sealants.....	463	187	14.9	426.6
	2821	Plastics materials and resins.....	45	23	1.6	39.0
	2851	Paints and allied products.....	38	25	2.6	78.0
	2891	Adhesives and gelatin.....	342	118	9.0	260.1
	3069	Fabricated rubber products, n.e.c.....	38	21	1.6	49.6
2892	2892	Explosives.....	92	50	18.6	281.7
2893	2893	Printing ink.....	407	145	9.6	232.0
2895	2895	Carbon black.....	37	33	2.9	137.6
2899	----	Chemical preparations, n.e.c.....	1,606	360	37.1	1,124.7
	2891	Adhesives and gelatin.....	16	13	1.9	81.4
	2899	Chemical preparations, n.e.c.....	1,590	347	35.1	1,043.3
2911	2911	Petroleum refining.....	323	277	100.8	4,594.7
2951	2951	Paving mixtures and blocks.....	964	169	13.9	403.1
2952	2952	Asphalt felts and coatings.....	235	140	15.6	443.3
2992	2992	Lubricating oils and greases.....	443	117	8.1	295.8

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees  (1,000)	Value added by manufacture, adjusted  (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
2999	2999	Petroleum and coal products, n.e.c.....	51	17	1.1	56.3
3011	3011	Tires and inner tubes.....	206	126	107.5	3,070.8
3021	----	Rubber and plastics footwear.....	107	74	31.6	370.3
	3021	Rubber footwear.....	81	50	28.1	332.5
	3079	Miscellaneous plastics products.....	26	24	3.5	37.8
3031	3031	Reclaimed rubber.....	20	9	.9	15.6
3041	----	Rubber and plastics hose and belting.....	90	73	31.9	618.7
	3069	Fabricated rubber products, n.e.c.....	74	62	30.1	580.1
	3079	Miscellaneous plastics products.....	16	11	1.8	38.6
3069	3069	Fabricated rubber products, n.e.c.....	1,116	606	99.0	1,573.1
3079	----	Miscellaneous plastics products.....	7,698	3,300	346.9	6,004.7
	2821	Plastics materials and resins.....	611	197	25.6	567.3
	3079	Miscellaneous plastics products.....	7,087	3,103	321.3	5,437.4
3111	3111	Leather tanning and finishing.....	517	223	25.7	368.3
3131	----	Boot and shoe cut stock and findings.....	248	121	8.7	86.2
	3131	Footwear cut stock.....	248	121	8.7	86.2
3142	3142	House slippers.....	91	66	8.5	85.7
3143	----	Men's footwear, except athletic.....	221	197	61.5	674.4
	3141	Shoes, except rubber.....	221	197	61.5	674.4
3144	----	Women's footwear, except athletic.....	422	316	77.4	763.6
	3141	Shoes, except rubber.....	422	316	77.4	763.6
3149	----	Footwear, except rubber, n.e.c.....	183	133	28.7	272.5
	3141	Shoes, except rubber.....	183	133	28.7	272.5
3151	3151	Leather gloves and mittens.....	106	60	4.9	43.0
3161	3161	Luggage.....	277	130	17.1	194.1
3171	3171	Women's handbags and purses.....	444	214	22.2	201.5
3172	----	Personal leather goods.....	244	98	11.5	143.7
	3172	Personal leather goods.....	244	98	11.5	143.7
3199	----	Leather goods, n.e.c.....	448	99	7.2	84.3
	3121	Industrial leather belting.....	50	11	.8	13.0
	3199	Leather goods, n.e.c.....	398	88	6.3	71.4
3211	3211	Flat glass.....	32	30	20.9	662.1
3221	3221	Glass containers.....	117	115	72.9	1,399.7
3229	3229	Pressed and blown glass, n.e.c.....	252	110	45.9	941.4
3231	3231	Products of purchased glass.....	913	284	33.7	668.9
3241	3241	Cement, hydraulic.....	198	171	30.0	1,153.5
3251	3251	Brick and structural clay tile.....	417	302	24.1	336.4
3253	3253	Ceramic wall and floor tile.....	83	56	8.3	112.3
3255	3255	Clay refractories.....	156	101	11.2	202.1
3259	3259	Structural clay products, n.e.c.....	119	70	8.2	119.8
3261	3261	Vitreous plumbing fixtures.....	59	40	9.6	186.8
3262	3262	Vitreous china food utensils.....	34	20	5.9	67.4
3263	3263	Fine earthenware food utensils.....	18	15	6.8	56.2
3264	3264	Porcelain electrical supplies.....	83	64	13.4	190.4
3269	3269	Pottery products, n.e.c.....	426	95	9.1	99.9
3271	3271	Concrete block and brick.....	1,388	416	22.8	438.5
3272	3272	Concrete products, n.e.c.....	3,595	923	67.7	1,190.1
3273	3273	Ready-mixed concrete.....	4,915	1,328	85.7	1,756.7
3274	3274	Lime.....	103	69	5.7	129.3
3275	3275	Gypsum products.....	114	84	11.2	325.1
3281	3281	Cut stone and stone products.....	908	192	15.0	191.4
3291	3291	Abrasive products.....	392	167	24.5	529.6
3292	----	Asbestos products.....	142	97	21.0	426.1
	3292	Asbestos products.....	132	90	20.2	409.2
	3293	Gaskets and insulations.....	10	7	.8	16.9
3293	----	Gaskets, packing and sealing devices.....	374	184	27.7	428.5
	3069	Fabricated rubber products, n.e.c.....	66	57	11.9	183.4
	3121	Industrial leather belting.....	3	3	.2	2.1
	3293	Gaskets and insulations.....	294	120	13.8	202.8
	3599	Miscellaneous machinery, except electrical.....	11	4	1.8	40.3

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars) <sub>g</sub>
3295	3295	Minerals, ground or treated.....	488	152	9.5	237.2
3296	3296	Mineral wool.....	108	75	18.0	441.5
3297	3297	Nonclay refractories.....	90	60	8.1	191.1
3299	3299	Nonmetallic mineral products, n.e.c.....	491	81	6.3	104.7
3312	3312	Blast furnaces and steel mills.....	364	251	469.1	10,304.7
3313	3313	Electrometallurgical products.....	40	31	9.5	217.2
3315	3315	Steel wire and related products.....	289	199	30.6	583.5
3316	3316	Cold finishing of steel shapes.....	125	93	20.1	504.6
3317	3317	Steel pipe and tubes.....	152	122	23.6	506.1
3321	3321	Gray iron foundries.....	993	723	138.4	2,257.0
3322	3322	Malleable iron foundries.....	73	64	22.5	342.6
3324	----	Steel investment foundries.....	74	62	11.2	175.6
	3323	Steel foundries.....	74	62	11.2	175.6
3325	----	Steel foundries, n.e.c.....	260	201	46.7	706.0
	3323	Steel foundries.....	260	201	46.7	706.0
3331	3331	Primary copper.....	31	31	17.2	487.8
3332	3332	Primary lead.....	16	15	2.8	128.7
3333	3333	Primary zinc.....	15	15	6.3	121.6
3334	3334	Primary aluminum.....	31	31	25.6	816.0
3339	3339	Primary nonferrous metals, n.e.c.....	84	32	6.7	151.5
3341	3341	Secondary nonferrous metals.....	381	184	17.8	410.9
3351	3351	Copper rolling and drawing.....	149	117	37.8	800.3
3353	----	Aluminum sheet, plate, and foil.....	50	49	31.3	692.3
	3352	Aluminum rolling and drawing.....	50	49	31.3	692.3
3354	----	Aluminum extruded products.....	180	128	27.7	427.6
	3352	Aluminum rolling and drawing.....	180	128	27.7	427.6
3355	----	Aluminum rolling and drawing, n.e.c.....	16	15	4.6	57.3
	3352	Aluminum rolling and drawing.....	16	15	4.6	57.3
3356	3356	Nonferrous rolling and drawing, n.e.c.....	167	97	18.1	374.1
3357	3357	Nonferrous wiredrawing and insulating.....	341	278	68.8	1,448.0
3361	----	Aluminum foundries.....	1,005	430	45.7	718.3
	3361	Aluminum castings.....	1,005	430	45.7	718.3
3362	----	Brass, bronze, and copper foundries.....	507	195	15.4	236.9
	3362	Brass, bronze, and copper castings.....	507	195	15.4	236.9
3369	----	Nonferrous foundries, n.e.c.....	329	167	20.3	314.0
	3369	Nonferrous castings, n.e.c.....	329	167	20.3	314.0
3398	----	Metal heat treating.....	952	266	17.2	310.6
	3399	Primary metal products, n.e.c.....	952	266	17.2	310.6
3399	3399	Primary metal products, n.e.c.....	168	105	7.9	165.0
3411	3411	Metal cans.....	396	309	68.5	1,815.8
3412	----	Metal barrels, drums, and pails.....	157	99	10.2	188.8
	3491	Metal barrels, drums, and pails.....	157	99	10.2	188.8
3421	3421	Cutlery.....	134	69	13.4	322.3
3423	3423	Hand and edge tools, n.e.c.....	626	255	39.3	780.0
3425	3425	Handsaws and saw blades.....	91	52	6.6	127.5
3429	3429	Hardware, n.e.c.....	1,053	482	99.9	2,023.6
3431	3431	Metal sanitary ware.....	95	50	11.2	208.2
3432	3432	Plumbing fittings and brass goods.....	230	112	18.6	361.8
3433	3433	Heating equipment, except electric.....	432	191	30.9	561.6
3441	----	Fabricated structural metal products.....	2,154	1,094	104.3	1,730.7
	3441	Fabricated structural steel.....	2,154	1,094	104.3	1,730.7
3442	3442	Metal doors, sash, and trim.....	1,558	646	70.7	1,003.7



# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3443	3443	Fabricated platework (boiler shops).....	1,486	795	93.0	1,758.7
3444	3444	Sheet metalwork.....	3,117	933	74.0	1,299.9
3446	3446	Architectural metalwork.....	1,459	250	20.9	311.8
3448	----	Prefabricated metal buildings.....	159	88	12.5	275.9
	3449	Miscellaneous metalwork.....	159	88	12.5	275.9
3449	3449	Miscellaneous metalwork.....	418	220	19.5	362.2
3451	3451	Screw machine products.....	1,804	612	40.5	648.5
3452	3452	Bolts, nuts, rivets, and washers.....	678	396	60.1	1,196.8
3462	----	Iron and steel forgings.....	280	180	34.3	661.8
	3391	Iron and steel forgings.....	280	180	34.3	661.8
3463	----	Nonferrous forgings.....	46	33	5.8	104.0
	3392	Nonferrous forgings.....	46	33	5.8	104.0
3465	----	Automotive stampings.....	453	364	123.3	2,663.8
	3461	Metal stampings.....	453	364	123.3	2,663.8
3466	----	Crowns and closures.....	53	48	8.1	166.7
	3461	Metal stampings.....	53	48	8.1	166.7
3469	----	Metal stampings, n.e.c.....	2,356	982	92.0	1,461.0
	3461	Metal stampings.....	2,356	982	92.0	1,461.0
3471	3471	Plating and polishing.....	3,264	825	54.6	741.2
3479	3479	Metal coating and allied services.....	1,497	372	27.6	379.2
3482	----	Small arms ammunition.....	62	25	13.9	228.6
	1961	Small arms ammunition.....	62	25	13.9	228.6
3483	----	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
	1929	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
3484	----	Small arms.....	82	41	16.1	278.6
	1951	Small arms.....	82	41	16.1	278.6
3489	----	Ordnance and accessories, n.e.c.....	76	36	24.6	380.9
	1911	Guns, howitzers, and mortars.....	13	3	3.5	53.6
	1999	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
3493	----	Steel springs, except wire.....	110	53	8.5	149.7
	3493	Steel springs.....	110	53	8.5	149.7
3494	3494	Valves and pipe fittings.....	780	464	94.3	1,751.2
3495	----	Wire springs.....	284	216	23.7	340.7
	3481	Miscellaneous fabricated wire products.....	284	216	23.7	340.7
3496	----	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
	3481	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
3497	3497	Metal foil and leaf.....	63	40	5.4	126.5
3498	3498	Fabricated pipe and fittings.....	423	202	17.5	363.1
3499	----	Fabricated metal products, n.e.c.....	2,343	653	61.8	1,047.4
	3492	Safes and vaults.....	44	19	4.1	79.0
	3496	Collapsible tubes.....	20	17	2.6	29.0
	3499	Fabricated metal products, n.e.c.....	2,279	617	55.1	939.5
3511	----	Turbines and turbine generator sets.....	75	46	46.2	1,225.3
	3511	Steam engines and turbines.....	75	46	46.2	1,225.3
3519	3519	Internal combustion engines, n.e.c.....	178	108	69.9	1,674.2
3523	----	Farm machinery and equipment.....	1,548	564	104.6	2,248.0
	3522	Farm machinery.....	1,473	539	101.8	2,195.4
	3799	Transportation equipment, n.e.c.....	75	25	2.8	52.7
3524	----	Lawn and garden equipment.....	110	86	20.7	453.2
	3522	Farm machinery.....	110	86	20.7	453.2
3531	3531	Construction machinery.....	748	387	133.8	3,130.7
3532	3532	Mining machinery.....	240	124	21.3	393.2
3533	3533	Oilfield machinery.....	315	159	35.9	788.6
3534	3534	Elevators and moving stairways.....	154	88	15.0	310.2
3535	3535	Conveyors and conveying equipment.....	492	243	27.2	540.1
3536	3536	Hoists, cranes, and monorails.....	188	92	16.3	274.7
3537	3537	Industrial trucks and tractors.....	380	135	25.8	524.7
3541	3541	Machine tools, metal-cutting types.....	894	275	52.5	901.7

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
				(1,000)	(million dollars)	
3542	----	Machine tools, metal-forming types.....	383	162	24.1	417.7
	3542	Machine tools, metal-forming types.....	383	162	24.1	417.7
3544	----	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
	3544	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
3545	----	Machine tool accessories.....	1,231	413	46.7	876.1
	3545	Machine tool accessories.....	1,231	413	46.7	876.1
3546	----	Power-driven handtools.....	88	65	23.1	434.5
	3548	Metalworking machinery, n.e.c.....	88	65	23.1	434.5
3547	----	Rolling mill machinery.....	47	38	10.4	206.4
	3548	Metalworking machinery, n.e.c.....	47	38	10.4	206.4
3549	----	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
	3548	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
3551	3551	Food products machinery.....	688	290	31.9	605.2
3552	3552	Textile machinery.....	579	225	32.7	487.9
3553	3553	Woodworking machinery.....	242	109	13.7	285.1
3554	3554	Paper industries machinery.....	218	109	15.3	254.0
3555	3555	Printing trades machinery.....	574	173	23.9	503.6
3559	3559	Special industry machinery, n.e.c.....	1,384	525	72.6	1,596.1
3561	----	Pumps and pumping equipment.....	559	260	55.5	1,095.6
	3561	Pumps and compressors.....	559	260	55.5	1,095.6
3562	3562	Ball and roller bearings.....	132	92	49.2	898.7
3563	----	Air and gas compressors.....	84	64	22.9	467.5
	3561	Pumps and compressors.....	84	64	22.9	467.5
3564	3564	Blowers and fans.....	396	172	23.5	468.8
3565	3565	Industrial patterns.....	1,021	97	8.5	161.0
3566	----	Speed changers, drives, and gears.....	346	155	22.5	409.0
	3566	Power transmission equipment.....	346	155	22.5	409.0
3567	3567	Industrial furnaces and ovens.....	266	108	13.6	244.3
3568	----	Power transmission equipment, n.e.c.....	155	127	27.7	544.4
	3566	Power transmission equipment.....	155	127	27.7	544.4
3569	3569	General industrial machinery, n.e.c.....	901	360	37.0	697.7
3573	3573	Electronic computing equipment.....	602	355	144.8	3,497.6
3574	3574	Calculating and accounting machines.....	79	30	22.5	407.0
3576	----	Scales and balances, except laboratory.....	97	44	6.7	129.7
	3576	Scales and balances.....	97	44	6.7	129.7
3579	----	Typewriters; office machines, n.e.c.....	217	97	34.5	870.1
	3572	Typewriters.....	21	12	12.5	371.3
	3574	Calculating and accounting machines.....	3	3	.7	14.5
	3579	Office machines, n.e.c.....	193	82	21.3	484.3
3581	3581	Automatic merchandising machines.....	125	48	10.5	183.4
3582	3582	Commercial laundry equipment.....	107	47	4.8	88.2
3585	----	Refrigeration and heating equipment.....	774	443	150.8	3,517.4
	3433	Heating equipment, except electric.....	39	28	9.7	190.5
	3585	Refrigeration machinery.....	735	415	141.2	3,326.9
3586	3586	Measuring and dispensing pumps.....	57	33	7.2	134.1
3589	----	Service industry machinery, n.e.c.....	706	232	24.4	503.6
	3589	Service industry machines, n.e.c.....	706	232	24.4	503.6
3592	----	Carburetors, pistons, rings, valves.....	113	72	26.7	500.0
	3599	Miscellaneous machinery, except electrical.....	113	72	26.7	500.0
3599	----	Machinery, except electrical, n.e.c.....	16,287	1,946	157.8	2,515.5
	3599	Miscellaneous machinery, except electrical.....	16,287	1,946	157.8	2,515.5
3612	----	Transformers.....	216	136	46.8	757.3
	3611	Electric measuring instruments.....	8	7	.9	15.9
	3612	Transformers.....	208	129	45.9	741.4
3613	3613	Switchgear and switchboard apparatus.....	568	283	69.2	1,303.0
3621	3621	Motors and generators.....	425	257	90.3	1,475.2
3622	3622	Industrial controls.....	590	218	51.1	908.4

# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars)
3623	----	Welding apparatus, electric.....	166	80	15.5	353.5
	3623	Welding apparatus.....	166	80	15.5	353.5
3624	3624	Carbon and graphite products.....	72	44	11.3	217.4
3629	3629	Electrical industrial apparatus, n.e.c.....	258	121	20.2	270.0
3631	3631	Household cooking equipment.....	84	51	23.3	412.0
3632	3632	Household refrigerators and freezers.....	36	25	34.1	790.8
3633	----	Household laundry equipment.....	29	24	23.6	684.7
	3582	Commercial laundry equipment.....	3	2	.4	5.4
	3633	Household laundry equipment.....	26	22	23.2	679.3
3634	3634	Electric housewares and fans.....	299	167	51.3	909.2
3635	3635	Household vacuum cleaners.....	36	24	11.2	299.5
3636	3636	Sewing machines.....	75	18	5.3	124.6
3639	3639	Household appliances, n.e.c.....	85	48	14.0	341.4
3641	3641	Electric lamps.....	143	72	31.5	724.4
3643	3643	Current-carrying wiring devices.....	413	222	50.4	792.1
3644	3644	Noncurrent-carrying wiring devices.....	179	117	25.7	490.8
3645	----	Residential lighting fixtures.....	701	278	26.5	390.2
	3642	Lighting fixtures.....	701	278	26.5	390.2
3646	----	Commercial lighting fixtures.....	236	140	18.8	350.4
	3642	Lighting fixtures.....	236	140	18.8	350.4
3647	----	Vehicular lighting equipment.....	47	31	13.6	299.8
	3642	Lighting fixtures.....	47	31	13.6	299.8
3648	----	Lighting equipment, n.e.c.....	190	95	12.7	254.3
	3642	Lighting fixtures.....	190	95	12.7	254.3
3651	3651	Radio and TV receiving sets.....	372	164	86.5	1,807.8
3652	3652	Phonograph records.....	567	119	20.3	375.6
3661	3661	Telephone and telegraph apparatus.....	203	110	134.4	2,650.1
3662	3662	Radio and TV communication equipment.....	1,773	921	319.2	5,803.1
3671	3671	Electron tubes, receiving type.....	25	13	11.4	173.8
3672	----	Cathode ray television picture tubes.....	75	21	15.2	345.5
	3672	Cathode ray picture tubes.....	75	21	15.2	345.5
3673	3673	Electron tubes, transmitting.....	51	38	20.5	342.8
3674	----	Semiconductors and related devices.....	327	198	97.6	1,735.1
	3674	Semiconductors.....	327	198	97.6	1,735.1
3675	----	Electronic capacitors.....	113	101	27.6	298.6
	3679	Electronic components, n.e.c.....	113	101	27.6	298.6
3676	----	Electronic resistors.....	86	78	20.5	263.5
	3679	Electronic components, n.e.c.....	86	78	20.5	263.5
3677	----	Electronic coils and transformers.....	248	206	24.2	228.7
	3679	Electronic components, n.e.c.....	248	206	24.2	228.7
3678	----	Electronic connectors.....	91	79	18.1	345.6
	3679	Electronic components, n.e.c.....	91	79	18.1	345.6
3679	3679	Electronic components, n.e.c.....	1,844	700	100.5	1,577.2
3691	3691	Storage batteries.....	212	120	22.1	477.8
3692	3692	Primary batteries, dry and wet.....	48	31	8.4	221.6
3693	3693	X-ray apparatus and tubes.....	104	54	12.1	311.3
3694	3694	Engine electrical equipment.....	290	143	57.9	1,212.6
3699	----	Electrical equipment and supplies, n.e.c.....	995	189	19.3	263.9
	3699	Electrical equipment, n.e.c.....	995	189	19.3	263.9
3711	----	Motor vehicles and car bodies.....	231	119	339.2	11,782.5
	3711	Motor vehicles.....	231	119	339.2	11,782.5
3713	----	Truck and bus bodies.....	786	354	42.6	659.7
	3713	Truck and bus bodies.....	778	346	41.8	648.5
	3791	Trailer coaches.....	8	8	.8	11.2



# APPENDIX B—Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3714	3714	Motor vehicle parts and accessories.....	2,119	935	400.9	9,164.7
3715	3715	Truck trailers.....	255	139	24.7	449.3
3721	3721	Aircraft.....	168	86	231.8	5,083.0
3724	----	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
	3722	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
3728	----	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
	3729	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
3731	3731	Ship building and repairing.....	455	277	144.6	1,881.3
3732	3732	Boat building and repairing.....	1,777	368	40.6	516.8
3743	----	Railroad equipment.....	163	103	50.8	1,113.3
	3741	Locomotives and parts.....	34	16	19.6	591.1
	3742	Railroad and streetcars.....	129	87	31.2	522.3
3751	3751	Motorcycles, bicycles, and parts.....	222	52	17.6	315.2
3761	----	Guided missiles and space vehicles.....	70	57	118.4	2,948.7
	1925	Complete guided missiles.....	70	57	118.4	2,948.7
3764	----	Space propulsion units and parts.....	29	28	20.8	506.6
	3722	Aircraft engines and engine parts.....	29	28	20.8	506.6
3769	----	Space vehicle equipment, n.e.c.....	48	39	20.9	513.9
	3729	Aircraft equipment, n.e.c.....	48	39	20.9	513.9
3792	----	Travel trailers and campers.....	1,030	385	37.1	479.9
	3791	Trailer coaches.....	1,000	362	33.3	435.4
	3799	Transportation equipment, n.e.c.....	30	23	3.7	44.5
3795	----	Tanks and tank components.....	22	15	5.9	111.7
	1931	Tanks and tank components.....	22	15	5.9	111.7
3799	----	Transportation equipment, n.e.c.....	501	192	16.1	232.1
	3751	Motorcycles, bicycles, and parts.....	4	1	.1	1.4
	3791	Trailer coaches.....	14	9	.6	5.0
	3799	Transportation equipment, n.e.c.....	483	182	15.4	225.7
3811	3811	Engineering and scientific instruments.....	739	262	36.7	653.2
3822	----	Environmental controls.....	131	62	30.7	511.8
	3822	Automatic temperature controls.....	131	62	30.7	511.8
3823	----	Process control instruments.....	187	128	35.6	620.4
	3821	Mechanical measuring devices.....	187	128	35.6	620.4
3824	----	Fluid meters and counting devices.....	61	43	8.8	180.9
	3821	Mechanical measuring devices.....	61	43	8.8	180.9
3825	----	Instruments to measure electricity.....	645	265	54.7	1,046.8
	3611	Electric measuring instruments.....	645	265	54.7	1,046.8
3829	----	Measuring and controlling devices, n.e.c.....	595	153	24.6	394.9
	3821	Mechanical measuring devices.....	595	153	24.6	394.9
3832	----	Optical instruments and lenses.....	494	146	18.8	384.3
	1941	Sighting and fire control equipment.....	18	6	.9	14.2
	3831	Optical instruments and lenses.....	476	140	17.9	370.1
3841	3841	Surgical and medical instruments.....	506	199	34.5	630.0
3842	3842	Surgical appliances and supplies.....	872	256	43.9	929.0
3843	3843	Dental equipment and supplies.....	429	107	12.4	262.3
3851	3851	Ophthalmic goods.....	499	125	26.6	416.3
3861	3861	Photographic equipment and supplies.....	627	225	96.0	4,087.9
3873	---	Watches, clocks, and watchcases.....	202	99	30.8	466.0
	3871	Watches and clocks.....	165	78	27.2	423.0
	3872	Watchcases.....	37	21	3.6	42.9
3911	3911	Jewelry, precious metal.....	1,524	315	32.6	536.0
3914	3914	Silverware and plated ware.....	206	72	13.1	206.8
3915	----	Jewelers' materials and lapidary work.....	567	87	8.0	116.4
	3912	Jewelers' findings and materials.....	239	63	5.7	75.2
	3913	Lapidary work.....	328	24	2.3	41.1

# APPENDIX B-Continued

## PART 1B. Derivation of New SIC Industries From Old SIC Industries: 1972-Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
New SIC	Old SIC		Total	With 20 employees or more		
			(number)	(number)		
3931	----	Musical instruments.....	344	111	24.5	339.3
	3931	Musical instruments and parts.....	344	111	24.5	339.3
3942	3942	Dolls.....	243	105	10.2	98.3
3944	----	Games, toys, and children's vehicles.....	664	284	61.5	980.6
	3941	Games and toys.....	633	267	58.0	940.2
	3943	Children's vehicles, except bicycles.....	31	17	3.5	40.3
3949	3949	Sporting and athletic goods, n.e.c.....	1,553	463	61.0	920.4
3951	----	Pens and mechanical pencils.....	117	64	10.9	213.7
	3951	Pens and mechanical pencils.....	111	59	10.2	200.2
	3953	Marking devices.....	6	5	.7	13.5
3952	3952	Lead pencils and art goods.....	144	49	7.1	108.2
3953	3953	Marking devices.....	621	99	8.1	121.5
3955	3955	Carbon paper and inked ribbons.....	84	52	5.7	113.4
3961	3961	Costume jewelry.....	766	208	21.4	275.7
3962	3962	Artificial flowers.....	263	53	4.8	57.5
3963	3963	Buttons.....	186	51	4.0	51.8
3964	3964	Needles, pins, and fasteners.....	267	125	20.2	334.5
3991	3991	Brooms and brushes.....	450	166	17.5	235.5
3993	3993	Signs and advertising displays.....	3,287	637	49.8	747.7
3995	----	Burial caskets.....	515	189	14.8	210.3
	3994	Morticians' goods.....	515	189	14.8	210.3
3996	3996	Hard surface floor coverings.....	20	11	5.8	212.0
3999	----	Manufacturing industries, n.e.c.....	3,367	614	65.1	897.2
	3999	Manufactures, n.e.c.....	3,367	614	65.1	897.2

# APPENDIX B—Continued

## PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
1911	Guns, howitzers, and mortars . . . . .	3489 pt.	Ordnance and accessories, n.e.c.
1925	Complete guided missiles . . . . .	3761	Guided missiles and space vehicles <sup>1</sup>
1929	Ammunition, except for small arms, n.e.c. . . . .	3483	Ammunition, except for small arms, n.e.c. <sup>1</sup>
1931	Tanks and tank components . . . . .	3795	Tanks and tank components <sup>1</sup>
1941	Sighting and fire control equipment:		
	Sighting and fire control equipment, electronic . .	3662 pt.	Radio and TV communication equipment
	Optical instruments and lenses . . . . .	3832 pt.	Optical instruments and lenses
1951	Small arms . . . . .	3484	Small arms <sup>1</sup>
1961	Small arms ammunition . . . . .	3482	Small arms ammunition <sup>1</sup>
1999	Ordnance and accessories, n.e.c. . . . .	3489 pt.	Ordnance and accessories, n.e.c.
2011	Meatpacking plants:		
	Meatpacking plants, n.e.c. . . . .	2011	Meatpacking plants
	Baby food meats . . . . .	2032 pt.	Canned specialties
	Pet food, from nonfood animals slaughtered in same plant . . . . .	2047 pt.	Dog, cat, and other pet food
2013	Sausages and other prepared meats:		
	Sausages and other prepared meats, n.e.c. . . . .	2013	Sausages and other prepared meats
	Baby food meats . . . . .	2032 pt.	Canned specialties
2015	Poultry dressing plants . . . . .	{ 2016	Poultry dressing plants
		2017	Poultry and egg processing
2031	Canned and cured sea foods . . . . .	2091	Canned and cured seafoods <sup>1</sup>
2032	Canned specialties . . . . .	2032 pt.	Canned specialties
2036	Fresh or frozen packaged fish . . . . .	2092	Fresh or frozen packaged fish <sup>1</sup>
2037	Frozen fruits and vegetables . . . . .	2037	Frozen fruits and vegetables
		2038	Frozen specialties
2042	Prepared feeds for animals and fowls:		
	Dog, cat, and other pet food . . . . .	2047 pt.	Dog, cat, and other pet food
	Other prepared feeds . . . . .	2048	Prepared feeds, n.e.c.
2071	Confectionery products . . . . .	2065	Confectionery products <sup>1</sup>
2072	Chocolate and cocoa products . . . . .	2066	Chocolate and cocoa products <sup>1</sup>
2073	Chewing gum . . . . .	2067	Chewing gum <sup>1</sup>
2091	Cottonseed oil mills . . . . .	2074	Cottonseed oil mills <sup>1</sup>
2092	Soybean oil mills . . . . .	2075	Soybean oil mills <sup>1</sup>
2093	Vegetable oil mills, n.e.c. . . . .	2076	Vegetable oil mills, n.e.c. <sup>1</sup>
2094	Animal and marine fats and oils . . . . .	2077	Animal and marine fats and oils <sup>1</sup>
2096	Shortening and cooking oils . . . . .	2079	Shortening and cooking oils <sup>1</sup>

See footnotes at end of table.



APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2256	Knit fabric mills .....	{ 2257	Circular knit fabric mills
		{ 2258	Warp knit fabric mills
2297	Scouring and combing plants .....	2299 pt.	Textile goods, n.e.c.
2299	Textile goods, n.e.c.:		
	Nonwoven fabrics .....	2297	Nonwoven fabrics
	Other textile goods, n.e.c. ....	2299 pt.	Textile goods, n.e.c.
2426	Hardwood dimension and flooring .....	2426 pt.	Hardwood dimension and flooring
2431	Millwork:		
	Millwork, n.e.c. ....	2431	Millwork
	Wood kitchen cabinets to be built-in .....	2434	Wood kitchen cabinets
2432	Veneer and plywood .....	{ 2435	Hardwood veneer and plywood
		{ 2436	Softwood veneer and plywood
2433	Prefabricated wood structures .....	{ 2439	Structural wood members, n.e.c.
		{ 2452	Prefabricated wood buildings
2442	Wirebound boxes and crates .....		
2443	Veneer and plywood containers .....	{ 2449	Wood containers, n.e.c.
2445	Cooperage .....		
		{ 2448	Wood pallets and skids
2499	Wood products, n.e.c. ....	{ 2492	Particleboard
		{ 2499	Wood products, n.e.c.
2511	Wood household furniture:		
	Wood kitchen cabinets, except to be		
	built-in .....	2434 pt.	Wood kitchen cabinets
	Wood household furniture, n.e.c. ....	2511	Wood household furniture
	Wood TV, radio, phonograph, and sewing		
	machine cabinets .....	2517	Wood TV and radio cabinets
2512	Upholstered household furniture:		
	Wood furniture frames .....	2426 pt.	Hardwood dimension and flooring
	Upholstered household furniture, n.e.c. ....	2512	Upholstered household furniture
2644	Wallpaper .....	2649 pt.	Converted paper products, n.e.c.
2649	Converted paper products, n.e.c.:		
	Stationery products .....	2648	Stationery products
	Other .....	2649 pt.	Converted paper products, n.e.c.
2751	Commercial printing, except lithographic:		
	Letterpress and screen .....	2751	Commercial printing, letterpress
	Gravure .....	2754	Commercial printing, gravure
2752	Commercial printing, lithographic .....	{ 2752	Commercial printing, lithographic
		{ 2795	Lithographic platemaking services

See footnotes at end of table.

# APPENDIX B—Continued

## PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2815	Cyclic intermediates and crudes . . . . .	2865	Cyclic crudes and intermediates <sup>1</sup>
2818	Industrial organic chemicals, n.e.c.:		
	Industrial organic chemicals, n.e.c. . . . .	2869	Industrial organic chemicals, n.e.c.
	Urea . . . . .	2873 pt.	Nitrogenous fertilizers
2819	Industrial inorganic chemicals, n.e.c.:		
	Industrial inorganic chemicals . . . . .	2819 pt.	Industrial inorganic chemicals, n.e.c.
	Household bleaches . . . . .	2842 pt.	Polishes and sanitation goods
	Nitrogenous fertilizer materials; nitric acid . . . . .	2873 pt.	Nitrogenous fertilizers
	Phosphoric acid and diammonium phosphate . . . . .	2874 pt.	Phosphatic fertilizers
2821	Plastics materials and resins:		
	Plastics materials and resins, n.e.c. . . . .	2821	Plastics materials and resins
	Adhesives from resins produced in same establishment . . . . .	2891 pt.	Adhesives and sealants
	Rods, sheets, etc., from resins produced in same establishment . . . . .	3079 pt.	Miscellaneous plastics products
2842	Polishes and sanitation goods:		
	Polishes and sanitation goods, n.e.c. . . . .	2842 pt.	Polishes and sanitation goods
	Household pesticidal preparations . . . . .	2879 pt.	Agricultural chemicals, n.e.c.
2851	Paints and allied products:		
	Paints and allied products, n.e.c. . . . .	2851	Paints and allied products
	Calking compounds . . . . .	2891 pt.	Adhesives and sealants
2871	Fertilizers:		
	Natural organic fertilizers, except compost . . . . .	2873 pt.	Nitrogenous fertilizers
	Phosphatic fertilizers . . . . .	2874 pt.	Phosphatic fertilizers
2872	Fertilizers, mixing only . . . . .	2875	Fertilizers, mixing only <sup>1</sup>
2879	Agricultural chemicals, n.e.c. . . . .	2879 pt.	Agricultural chemicals, n.e.c.
2891	Adhesives and gelatin:		
	Adhesives . . . . .	2891 pt.	Adhesives and sealants
	Gelatin and sizes . . . . .	2899 pt.	Chemical preparations, n.e.c.
2899	Chemical preparations, n.e.c.:		
	Sealants, n.e.c. . . . .	2891 pt.	Adhesives and sealants
	Chemical preparations, n.e.c. . . . .	2899 pt.	Chemical preparations, n.e.c.
2911	Petroleum refining:		
	Except rerefining of oils, etc. . . . .	2911	Petroleum refining
	Rerefining of oils and greases . . . . .	2992 pt.	Lubricating oils and greases
2952	Asphalt felts and coatings:		
	Linoleum and tile cement . . . . .	2891 pt.	Adhesives and sealants
	Asphalt felts and coatings, n.e.c. . . . .	2952	Asphalt felts and coatings

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
2992	Lubricating oils and greases . . . . .	2992 pt.	Lubricating oils and greases
3021	Rubber footwear . . . . .	3021 pt.	Rubber and plastics footwear
3069	Fabricated rubber products, n.e.c.:		
	Rubber cement . . . . .	2891 pt.	Adhesives and sealants
	Rubber hose and belting . . . . .	3041 pt.	Rubber and plastics hose and belting
	Fabricated rubber products, n.e.c. . . . .	3069	Fabricated rubber products, n.e.c.
	Rubber packing . . . . .	3293 pt.	Gaskets, packing and sealing devices
3079	Miscellaneous plastics products:		
	Plastics footwear . . . . .	3021 pt.	Rubber and plastics footwear
	Plastics hose and belting . . . . .	3041 pt.	Rubber and plastics hose and belting
	Miscellaneous plastics products, n.e.c. . . . .	3079 pt.	Miscellaneous plastics products
3121	Industrial leather belting:		
	Leather belting . . . . .	3199 pt.	Leather goods, n.e.c.
	Leather packing . . . . .	3293 pt.	Gaskets, packing and sealing devices
3141	Shoes, except rubber . . . . .	{ 3143 3144 3149	Men's footwear, except athletic Women's footwear, except athletic Footwear, except rubber, n.e.c.
3199	Leather goods, n.e.c. . . . .	3199 pt.	Leather goods, n.e.c.
3292	Asbestos products . . . . .	3292 pt.	Asbestos products
3293	Gaskets and insulations:		
	Asbestos insulation . . . . .	3292 pt.	Asbestos products
	Gaskets and packing, n.e.c. . . . .	3293 pt.	Gaskets, packing and sealing devices
3295	Minerals, ground or treated . . . . .	3295	Minerals, ground or treated <sup>2</sup>
3323	Steel foundries . . . . .	{ 3324 3325	Steel investment foundries Steel foundries, n.e.c.
3352	Aluminum rolling and drawing . . . . .	{ 3353 3354 3355	Aluminum sheet, plate, and foil Aluminum extruded products Aluminum rolling and drawing, n.e.c.
3391	Iron and steel forgings . . . . .	3462	Iron and steel forgings <sup>1</sup>
3392	Nonferrous forgings . . . . .	3463	Nonferrous forgings <sup>1</sup>
3399	Primary metal products, n.e.c. . . . .	{ 3398 3399	Metal heat treating Primary metal products, n.e.c.
3433	Heating equipment, except electric:		
	Heating equipment, except electric, n.e.c. . . . .	3433	Heating equipment, except electric
	Warm air heating equipment . . . . .	3585 pt.	Refrigeration and heating equipment
3449	Miscellaneous metalwork . . . . .	{ 3448 3449	Prefabricated metal buildings Miscellaneous metalwork

See footnotes at end of table.



# APPENDIX B—Continued

## PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3461	Metal stampings . . . . .	3465	Automotive stampings
		3466	Crowns and closures
		3469	Metal stampings, n.e.c.
3481	Miscellaneous fabricated wire products . . . . .	3495	Wire springs
		3496	Miscellaneous fabricated wire products
3491	Metal barrels, drums, and pails . . . . .	3412	Metal barrels, drums, and pails <sup>1</sup>
3492	Safes and vaults . . . . .		
3496	Collapsible tubes . . . . .	3499	Fabricated metal products, n.e.c.
3499	Fabricated metal products, n.e.c. . . . .		
3522	Farm machinery:		
	Farm machinery, n.e.c. . . . .	3523 pt.	Farm machinery and equipment
	Lawn and garden equipment . . . . .	3524	Lawn and garden equipment
3531	Construction machinery . . . . .	3531 pt.	Construction machinery
3533	Oilfield machinery:		
	Well point systems . . . . .	3531 pt.	Construction machinery
	Oilfield machinery . . . . .	3533	Oilfield machinery
3536	Hoists, cranes, and monorails . . . . .	3536 pt.	Hoists, cranes, and monorails
3537	Industrial trucks and tractors:		
	Automatic stacking machines . . . . .	3536 pt.	Hoists, cranes, and monorails
	Industrial trucks and tractors . . . . .	3537	Industrial trucks and tractors
3541	Machine tools, metal-cutting types . . . . .	3541 pt.	Machine tools, metal-cutting types
3548	Metalworking machinery, n.e.c.:		
	Automotive maintenance equipment, metal-		
	cutting types . . . . .	3541 pt.	Machine tools, metal-cutting types
	Power driven handtools . . . . .	3546	Power driven handtools
	Rolling mill machinery . . . . .	3547	Rolling mill machinery
	Metalworking machinery, n.e.c. . . . .	3549	Metalworking machinery, n.e.c.
3561	Pumps and compressors . . . . .	3561	Pumps and pumping equipment
		3563	Air and gas compressors
3562	Ball and roller bearings . . . . .	3562 pt.	Ball and roller bearings
3566	Power transmission equipment:		
	Mounted ball and roller bearings . . . . .	3562 pt.	Ball and roller bearings
	Speed changers, drives and gears . . . . .	3566	Speed changers, drives, and gears
	Power transmission equipment, n.e.c. . . . .	3568	Power transmission equipment, n.e.c.
3574	Calculating and accounting machines:		
	Other calculating machines . . . . .	3574	Calculating and accounting machines
	Voting machines and ticket counting machines . .	3579 pt.	Office machines, n.e.c.

See footnotes at end of table.

APPENDIX B—Continued

PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3579	Office machines, n.e.c. ....	3579 pt.	Office machines, n.e.c.
3582	Commercial laundry equipment:		
	Commercial laundry equipment, n.e.c. ....	3582	Commercial laundry equipment
	Coin-operated washers and dryers ....	3633 pt.	Household laundry equipment
3585	Refrigeration machinery ....	3585 pt.	Refrigeration and heating equipment
3599	Miscellaneous machinery, except electrical:		
	Metal packing ....	3293 pt.	Gaskets, packing and sealing devices
	Carburetors, pistons, rings, valves ....	3592	Carburetors, pistons, rings, valves
	Machinery, except electrical, n.e.c. ....	3599	Machinery, except electrical, n.e.c.
3611	Electric measuring instruments:		
	Instrument transformers ....	3612 pt.	Transformers
	Instruments to measure electricity ....	3825	Instruments to measure electricity
3612	Transformers ....	3612 pt.	Transformers
3633	Household laundry equipment ....	3633 pt.	Household laundry equipment
3642	Lighting fixtures ....	3645	Residential lighting fixtures
		3646	Commercial lighting fixtures
		3647	Vehicular lighting equipment
		3648	Lighting equipment, n.e.c.
3662	Radio and TV communication equipment ....	3662 pt.	Radio and TV communication equipment
3679	Electronic components, n.e.c. ....	3675	Electronic capacitors
		3676	Electronic resistors
		3677	Electronic coils and transformers
		3678	Electronic connectors
		3679	Electronic components, n.e.c.
3711	Motor vehicles ....	3711	Motor vehicles and car bodies
3712	Passenger car bodies ....		
3713	Truck and bus bodies:		
	Truck and bus bodies, n.e.c. ....	3713	Truck and bus bodies
	Demountable cargo containers ....	3715 pt.	Truck trailers
3715	Truck trailers ....	3715 pt.	Truck trailers
3722	Aircraft engines and engine parts ....	3724	Aircraft engines and engine parts
		3764	Space propulsion units and parts
3723	Aircraft propellers and parts ....	3728 pt.	Aircraft equipment, n.e.c.
3729	Aircraft equipment, n.e.c.:		
	Aircraft equipment ....	3728 pt.	Aircraft equipment, n.e.c.
	Space vehicle equipment ....	3769	Space vehicle equipment, n.e.c.
3741	Locomotives and parts ....	3743	Railroad equipment
3742	Railroad and street cars ....		

See footnotes at end of table.

# APPENDIX B—Continued

## PART 2A. Comparability of 1967 SIC Industries to 1972 SIC Industries, Where Revisions Occurred to 1967 Industries—Continued

1967 industry		1972 industry	
SIC code	Short title	SIC code	Short title
3751	Motorcycles, bicycles, and parts:		
	Motorcycles, bicycles, and parts, n.e.c. ....	3751	Motorcycles, bicycles, and parts
	Golf carts, etc. ....	3799 pt.	Transportation equipment, n.e.c.
3791	Trailer coaches:		
	Travel trailers and campers, n.e.c. ....	3792	Travel trailers and campers
	Mobile homes ....	2451	Mobile homes
3799	Transportation equipment, n.e.c.:		
	Farm trailers and wagons ....	3523 pt.	Farm machinery and equipment
	Folding tent-type trailers ....	3792 pt.	Travel trailers and campers
	Transportation equipment, n.e.c. ....	3799 pt.	Transportation equipment, n.e.c.
3821	Mechanical measuring devices ....	3823	Process control instruments
		3824	Fluid meters and counting devices
		3829	Measuring and controlling devices, n.e.c.
3831	Optical instruments and lenses ....	3832 pt.	Optical instruments and lenses
3871	Watches and clocks ....		
3872	Watchcases ....	3873	Watches, clocks, and watchcases
3912	Jewelers' findings and materials ....		
3913	Lapidary work ....	3915	Jewelers' materials and lapidary work
3941	Games and toys ....		
3943	Children's vehicles, except bicycles ....	3944	Games, toys, and children's vehicles
3951	Pens and mechanical pencils ....	3951 pt.	Pens and mechanical pencils
3953	Marking devices:		
	Felt tip markers ....	3951 pt.	Pens and mechanical pencils
	Marking devices ....	3953	Marking devices
3994	Morticians' goods:		
	Burial caskets ....	3995	Burial caskets (include in "n.e.c.," industry
	Other morticians' goods ....	Various	of various groups)

<sup>1</sup> No change in content.

<sup>2</sup> The classification of separate establishments milling or otherwise preparing nonmetallic minerals in this division and in industry 3295 has been clarified. Industry 3295 will include only establishments crushing or grinding or otherwise preparing minerals mined in industry groups 145 and 149, and industry 1472. Establishments crushing or grinding minerals mined in industry groups 142 and 144 and industries 1473 to 1479 are included in those same industries.



# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
				(1,000)	(million dollars)	
1911	----	Guns, howitzers, and mortars.....	13	3	3.5	53.6
	3489	Ordnance and accessories, n.e.c.....	13	3	3.5	53.6
1925	----	Complete guided missiles.....	70	57	118.4	2,948.7
	3761	Guided missiles and space vehicles.....	70	57	118.4	2,948.7
1929	----	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
	3483	Ammunition, except for small arms, n.e.c.....	95	77	54.9	679.0
1931	----	Tanks and tank components.....	22	15	5.9	111.7
	3795	Tanks and tank components.....	22	15	5.9	111.7
1941	----	Sighting and fire control equipment.....	18	6	.9	14.2
	3832	Optical instruments and lenses.....	18	6	.9	14.2
1951	----	Small arms.....	82	41	16.1	278.6
	3484	Small arms.....	82	41	16.1	278.6
1961	----	Small arms ammunition.....	62	25	14.0	228.6
	3482	Small arms ammunition.....	62	25	14.0	228.6
1999	----	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
	3489	Ordnance and accessories, n.e.c.....	63	33	21.1	327.4
2011	----	Meatpacking plants.....	2,472	863	157.1	2,962.9
	2011	Meatpacking plants.....	2,467	858	156.4	2,948.4
	2013	Sausages and other prepared meats.....	5	5	.7	14.5
2013	----	Sausages and other prepared meats.....	1,313	557	58.5	1,105.1
	2011	Meatpacking plants.....	7	5	1.1	19.7
	2013	Sausages and other prepared meats.....	1,306	552	57.4	1,085.4
2015	----	Poultry dressing plants.....	652	462	92.1	892.9
	2016	Poultry dressing plants.....	522	369	77.6	724.4
	2017	Poultry and egg processing.....	130	93	14.6	168.5
2021	2021	Creamery butter.....	231	63	4.0	82.3
2022	2022	Cheese, natural and processed.....	872	281	25.2	492.3
2023	2023	Condensed and evaporated milk.....	283	163	12.3	467.3
2024	2024	Ice cream and frozen desserts.....	697	273	21.1	459.8
2026	2026	Fluid milk.....	2,507	1,287	126.1	2,552.4
2031	----	Canned and cured seafoods.....	310	139	16.0	231.4
	2091	Canned and cured seafoods.....	310	139	16.0	231.4
2032	2032	Canned specialties.....	203	88	29.1	814.6
2033	2033	Canned fruits and vegetables.....	1,038	621	89.8	1,625.1
2034	----	Dehydrated food products.....	178	88	12.4	235.7
	2034	Dehydrated fruits, vegetables, soups.....	178	88	12.4	235.7
2035	2035	Pickles, sauces, and salad dressings.....	495	191	20.8	428.0
2036	----	Fresh or frozen packaged fish.....	519	257	25.0	287.5
	2092	Fresh or frozen packaged fish.....	519	257	25.0	287.5
2037	----	Frozen fruits and vegetables.....	643	401	81.1	1,410.9
	2037	Frozen fruits and vegetables.....	208	190	42.8	694.6
	2038	Frozen specialties.....	435	211	38.3	716.3
2041	2041	Flour and other grain mill products.....	457	181	16.1	509.8
2042	----	Prepared feeds for animals and fowls.....	2,341	767	58.3	1,714.3
	2047	Dog, cat, and other pet food.....	221	113	14.3	613.8
	2048	Prepared feeds, n.e.c.....	2,120	654	44.0	1,100.5
2043	----	Cereal preparations.....	47	26	12.9	688.4
	2043	Cereal breakfast foods.....	47	26	12.9	688.4
2044	2044	Rice milling.....	57	35	4.0	148.3
2045	2045	Blended and prepared flour.....	137	57	7.9	306.8
2046	2046	Wet corn milling.....	41	27	12.1	331.2
2051	2051	Bread, cake, and related products.....	3,313	1,374	193.5	3,518.1
2052	2052	Cookies and crackers.....	315	177	41.1	1,018.9
2061	2061	Raw cane sugar.....	77	62	7.1	151.7
2062	2062	Cane sugar refining.....	33	28	10.9	383.9
2063	2063	Beet sugar.....	61	54	11.5	310.5
2071	----	Confectionery products.....	1,011	394	60.7	1,115.6
	2065	Confectionery products.....	1,011	394	60.7	1,115.6
2072	----	Chocolate and cocoa products.....	48	30	10.0	282.6
	2066	Chocolate and cocoa products.....	48	30	10.0	282.2

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)	(1,000)	(million dollars) <sup>a</sup>
2073	----	Chewing gum.....	19	16	6.9	228.4
	2067	Chewing gum.....	19	16	6.9	228.4
2082	----	Malt liquors.....	167	130	51.5	1,993.6
	2082	Malt beverages.....	167	130	51.5	1,993.6
2083	2083	Malt.....	40	26	1.7	55.0
2084	2084	Wines, brandy and brandy spirits.....	213	74	9.4	407.9
2085	2085	Distilled liquor, except brandy.....	121	96	18.4	1,024.0
2086	2086	Bottled and canned soft drinks.....	2,683	1,552	121.1	2,336.7
2087	2087	Flavoring extracts and sirups, n.e.c.....	400	115	10.1	871.9
2091	----	Cottonseed oil mills.....	115	84	5.5	88.2
	2074	Cottonseed oil mills.....	115	84	5.5	88.2
2092	----	Soybean oil mills.....	94	74	9.1	350.0
	2075	Soybean oil mills.....	94	74	9.1	350.0
2093	----	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
	2076	Vegetable oil mills, n.e.c.....	32	18	1.2	44.8
2094	----	Animal and marine fats and oils.....	511	196	11.6	296.7
	2077	Animal and marine fats and oils.....	511	196	11.6	296.7
2095	2095	Roasted coffee.....	213	104	12.9	825.8
2096	----	Shortening and cooking oils.....	109	86	12.9	512.6
	2079	Shortening and cooking oils.....	109	86	12.9	512.6
2097	2097	Manufactured ice.....	818	87	6.8	91.7
2098	2098	Macaroni and spaghetti.....	194	64	7.3	155.7
2099	2099	Food preparations, n.e.c.....	2,099	658	66.2	1,805.2
2111	2111	Cigarettes.....	20	11	38.1	2,188.4
2121	2121	Cigars.....	124	51	13.5	191.9
2131	2131	Chewing and smoking tobacco.....	37	22	3.3	103.2
2141	2141	Tobacco stemming and redrying.....	91	70	11.4	153.6
2211	2211	Weaving mills, cotton.....	307	227	121.3	1,256.3
2221	----	Weaving mills, synthetics.....	412	341	149.7	1,831.6
	2221	Weaving mills, manmade fiber and silk.....	412	341	149.7	1,831.6
2231	2231	Weaving and finishing mills, wool.....	198	119	19.4	239.4
2241	2241	Narrow fabric mills.....	376	215	27.1	289.0
2251	2251	Women's hosiery, except socks.....	312	217	49.5	438.8
2252	2252	Hosiery, n.e.c.....	415	269	32.6	295.2
2253	2253	Knit outerwear mills.....	917	547	74.4	799.5
2254	2254	Knit underwear mills.....	87	74	26.0	251.5
2256	----	Knit fabric mills.....	919	585	90.0	1,353.8
	2257	Circular knit fabric mills.....	716	430	68.1	1,036.0
	2258	Warp knit fabric mills.....	203	155	22.0	317.8
2259	2259	Knitting mills, n.e.c.....	73	33	3.9	41.8
2261	2261	Finishing plants, cotton.....	196	115	25.7	322.0
2262	----	Finishing plants, synthetics.....	258	189	35.2	521.5
	2262	Finishing plants, manmade fiber and silk.....	258	189	35.2	521.5
2269	2269	Finishing plants, n.e.c.....	201	128	18.5	270.4
2271	2271	Woven carpets and rugs.....	65	18	6.5	93.2
2272	2272	Tufted carpets and rugs.....	379	235	50.1	926.8
2279	2279	Carpets and rugs, n.e.c.....	85	27	3.3	58.2
2281	2281	Yarn mills, except wool.....	424	357	89.6	867.2
2282	2282	Throwing and winding mills.....	212	169	38.0	477.8
2283	2283	Wool yarn mills.....	98	63	8.3	92.7
2284	2284	Thread mills.....	73	45	11.7	141.8
2291	----	Felt goods, n.e.c.....	47	30	5.0	80.5
	2291	Felt goods, except woven felts and hats.....	47	30	5.0	80.5
2292	2292	Lace goods.....	105	29	2.9	29.4
2293	2293	Padding and upholstery filling.....	132	59	4.4	64.5

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees (1,000)	Value added by manufacture, adjusted (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
2294	2294	Processed textile waste.....	106	37	3.6	50.9
2295	2295	Coated fabrics, not rubberized.....	203	132	18.0	382.4
2296	2296	Tire cord and fabric.....	18	18	10.0	145.8
2297	----	Scouring and combing plants.....	48	27	3.4	39.1
	2299	Textile goods, n.e.c.....	48	27	3.4	39.1
2298	2298	Cordage and twine.....	156	81	9.0	96.3
2299	----	Textile goods, n.e.c.....	381	119	15.6	260.5
	2297	Nonwoven fabrics.....	84	67	10.8	191.8
	2299	Textile goods, n.e.c.....	297	52	4.8	68.7
2311	----	Men's and boys' suits and coats.....	860	574	125.8	1,369.6
	2311	Men's and boys' suits and coats.....	856	570	124.8	1,342.2
	2329	Men's and boys' clothing, n.e.c.....	4	4	1.0	27.4
2321	2321	Men's and boys' shirts and nightware.....	730	563	113.4	1,003.8
2322	2322	Men's and boys' underwear.....	94	73	16.0	130.9
2323	2323	Men's and boys' neckwear.....	299	135	11.1	143.4
2327	2327	Men's and boys' separate trousers.....	624	428	91.3	784.9
2328	2328	Men's and boys' work clothing.....	503	435	89.6	784.8
2329	2329	Men's and boys' clothing, n.e.c.....	533	362	40.9	366.4
2331	2331	Women's and misses' blouses and waists.....	971	703	63.0	592.4
2335	2335	Women's and misses' dresses.....	5,565	2,978	211.6	1,888.7
2337	2337	Women's and misses' suits and coats.....	1,617	1,022	75.9	839.8
2339	2339	Women's and misses' outerwear, n.e.c.....	1,373	897	82.1	781.0
2341	2341	Women's and children's underwear.....	730	484	77.5	709.0
2342	----	Corsets and allied garments.....	272	193	28.0	340.0
	2342	Brassieres and allied garments.....	272	193	28.0	340.0
2351	2351	Millinery.....	216	52	3.2	33.2
2352	2352	Hats and caps, except millinery.....	280	122	11.3	100.2
2361	2361	Children's dresses and blouses.....	490	353	35.4	335.8
2363	2363	Children's coats and suits.....	165	105	9.2	90.4
2369	2369	Children's outerwear, n.e.c.....	406	265	30.1	282.9
2371	2371	Fur goods.....	797	48	4.7	86.2
2381	2381	Fabric dress and work gloves.....	137	94	11.9	100.3
2384	2384	Robes and dressing gowns.....	179	110	10.0	92.5
2385	2385	Waterproof outer garments.....	258	165	15.4	168.8
2386	2386	Leather and sheep lined clothing.....	187	91	7.0	82.1
2387	2387	Apparel belts.....	297	132	10.3	132.5
2389	2389	Apparel and accessories, n.e.c.....	244	87	7.3	59.7
2391	2391	Curtains and draperies.....	1,592	351	33.9	302.3
2392	2392	Housefurnishings, n.e.c.....	1,112	414	50.3	585.2
2393	2393	Textile bags.....	208	94	7.9	74.5
2394	----	Canvas products.....	860	146	12.9	130.3
	2394	Canvas and related products.....	860	146	12.9	130.3
2395	2395	Pleating and stitching.....	898	205	16.7	174.7
2396	2396	Automotive and apparel trimmings.....	668	203	27.6	530.8
2397	2397	Schiffli machine embroideries.....	451	56	5.5	75.0
2399	2399	Fabricated textile products, n.e.c.....	822	286	31.4	315.5
2411	2411	Logging camps and logging contractors.....	13,238	696	80.0	1,163.4
2421	2421	Sawmills and planing mills, general.....	8,071	1,717	166.6	2,906.0
2426	2426	Hardwood dimension and flooring.....	612	285	25.6	223.0
2429	2429	Special product sawmills, n.e.c.....	447	86	6.4	80.4
2431	----	Millwork.....	3,327	945	87.5	1,163.7
	2431	Millwork.....	2,434	720	70.5	962.7
	2434	Wood kitchen cabinets.....	893	225	17.1	201.0



# APPENDIX B-Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars) *		
2432	----	Veneer and plywood.....	598	479	68.8	1,276.2
	2435	Hardwood veneer and plywood.....	366	254	25.1	340.8
	2436	Softwood veneer and plywood.....	232	225	43.7	935.4
2433	----	Prefabricated wood structures.....	988	441	37.8	639.9
	2439	Structural wood members, n.e.c.....	678	196	12.6	182.8
	2452	Prefabricated wood buildings.....	310	245	25.2	457.1
2441	----	Nailed wooden boxes and shook.....	436	130	10.7	103.8
	2441	Nailed wood boxes and shook.....	436	130	10.7	103.8
2442	----	Wirebound boxes and crates.....	136	58	7.7	71.2
	2449	Wood containers, n.e.c.....	136	58	7.7	71.2
2443	----	Veneer and plywood containers.....	60	25	1.9	13.1
	2449	Wood containers, n.e.c.....	60	25	1.9	13.1
2445	----	Cooperage.....	72	17	2.3	29.8
	2449	Wood containers, n.e.c.....	72	17	2.3	29.8
2491	2491	Wood preserving.....	399	168	11.3	175.8
2499	----	Wood products, n.e.c.....	3,657	982	85.0	1,094.5
	2448	Wood pallets and skids.....	456	271	14.3	140.9
	2492	Particleboard.....	68	65	7.7	144.5
	2499	Wood products, n.e.c.....	3,133	646	63.0	809.1
2511	----	Wood household furniture.....	3,354	1,063	174.4	2,019.5
	2434	Wood kitchen cabinets.....	903	171	21.7	285.7
	2511	Wood household furniture.....	2,348	827	133.8	1,556.9
	2517	Wood TV and radio cabinets.....	103	65	18.9	176.9
2512	----	Upholstered household furniture.....	1,629	849	98.0	1,153.1
	2426	Hardwood dimension and flooring.....	321	79	5.9	49.1
	2512	Upholstered household furniture.....	1,308	770	92.0	1,104.0
2514	2514	Metal household furniture.....	467	230	34.4	447.2
2515	2515	Mattresses and bedsprings.....	977	370	31.4	479.9
2519	2519	Household furniture, n.e.c.....	166	73	6.9	95.6
2521	2521	Wood office furniture.....	240	104	11.5	146.7
2522	2522	Metal office furniture.....	193	118	27.8	513.2
2531	----	Public building furniture.....	421	194	21.0	288.3
	2531	Public building and related furniture.....	421	194	21.0	288.3
2541	2541	Wood partitions and fixtures.....	1,503	413	31.2	458.6
2542	2542	Metal partitions and fixtures.....	507	239	26.2	412.4
2591	----	Venetian blinds and shades.....	505	66	12.1	198.2
	2591	Drapery hardware and blinds and shades.....	505	66	12.1	198.2
2599	2599	Furniture and fixtures, n.e.c.....	494	177	14.5	211.7
2611	2611	Pulpmills.....	60	35	10.6	306.9
2621	2621	Papermills, except building paper.....	349	295	129.9	2,909.3
2631	2631	Paperboard mills.....	273	248	68.5	1,994.4
2641	2641	Paper coating and glazing.....	426	217	37.2	984.4
2642	2642	Envelopes.....	247	183	22.9	347.1
2643	2643	Bags, except textile bags.....	583	331	48.6	840.5
2644	----	Wallpaper.....	83	35	2.9	50.5
	2649	Converted paper products, n.e.c.....	83	35	2.9	50.5
2645	2645	Die-cut paper and board.....	374	159	15.2	301.6
2646	2646	Pressed and molded pulp goods.....	49	38	6.1	100.6
2647	2647	Sanitary paper products.....	108	85	26.3	882.8
2649	----	Converted paper products, n.e.c.....	655	277	29.9	500.7
	2648	Stationery products.....	431	131	14.7	225.6
	2649	Converted paper products, n.e.c.....	224	146	15.1	275.1
2651	2651	Folding paperboard boxes.....	544	376	45.3	739.7
2652	2652	Setup paperboard boxes.....	397	269	18.1	195.9
2653	2653	Corrugated and solid fiber boxes.....	1,265	959	107.9	1,736.9
2654	2654	Sanitary food containers.....	251	193	35.1	659.8

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars)
2655	----	Fiber cans, drums, and related materials.....	282	182	17.3	266.4
	2655	Fiber cans, drums, and similar products.....	282	182	17.3	266.4
2661	2661	Building paper and board mills.....	92	74	11.6	246.5
2711	2711	Newspapers.....	8,116	2,119	348.5	6,219.9
2721	2721	Periodicals.....	2,534	452	66.5	2,109.9
2731	2731	Book publishing.....	1,205	307	57.1	1,935.8
2732	2732	Book printing.....	700	287	40.9	604.5
2741	2741	Miscellaneous publishing.....	2,041	272	38.8	775.8
2751	----	Commercial printing, except lithographic.....	13,333	1,259	150.3	2,375.2
	2751	Commercial printing, letterpress.....	13,198	1,171	130.1	2,003.0
	2754	Commercial printing, gravure.....	135	88	20.0	372.2
2752	----	Commercial printing, lithographic.....	8,724	2,259	193.0	3,340.2
	2752	Commercial printing, lithographic.....	8,388	2,135	184.0	3,155.1
	2795	Lithographic platemaking services.....	336	124	8.9	185.1
2753	2753	Engraving and plate printing.....	560	132	9.6	152.4
2761	2761	Manifold business forms.....	667	376	38.6	823.6
2771	2771	Greeting card publishing.....	199	82	23.5	527.0
2782	2782	Blankbooks and looseleaf binders.....	461	240	26.6	390.6
2789	2789	Bookbinding and related work.....	1,004	301	25.1	296.2
2791	2791	Typesetting.....	1,887	373	26.0	426.0
2793	2793	Photoengraving.....	590	135	9.9	191.7
2794	2794	Electrotyping and stereotyping.....	81	24	1.7	28.5
2812	2812	Alkalies and chlorine.....	48	39	13.3	455.6
2813	2813	Industrial gases.....	503	138	9.6	466.7
2815	----	Cyclic intermediates and crudes.....	174	118	28.2	929.7
	2865	Cyclic crudes and intermediates.....	174	118	28.2	929.7
2816	2816	Inorganic pigments.....	114	69	12.8	382.6
2818	----	Industrial organic chemicals, n.e.c.....	521	302	103.7	5,073.6
	2869	Industrial organic chemicals, n.e.c.....	514	295	102.4	4,988.0
	2873	Nitrogenous fertilizers.....	7	7	1.3	85.6
2819	----	Industrial inorganic chemicals, n.e.c.....	788	382	76.6	2,604.1
	2819	Industrial inorganic chemicals, n.e.c.....	384	264	63.8	2,038.2
	2842	Polishes and sanitation goods.....	329	51	3.9	181.1
	2873	Nitrogenous fertilizers.....	66	61	8.1	362.0
	2874	Phosphatic fertilizers.....	9	6	.9	22.8
2821	----	Plastics materials and resins.....	979	483	82.0	2,766.8
	2821	Plastics materials and resins.....	323	263	54.8	2,160.5
	2891	Adhesives and sealants.....	45	23	1.6	39.0
	3079	Miscellaneous and plastics products.....	611	197	25.6	567.3
2822	2822	Synthetic rubber.....	59	34	11.8	491.7
2823	2823	Cellulosic manmade fibers.....	18	12	17.1	243.5
2824	2824	Organic fibers, noncellulosic.....	61	55	78.2	2,039.8
2831	2831	Biological products.....	182	62	10.1	231.4
2833	2833	Medicinals and botanicals.....	140	51	7.8	260.0
2834	2834	Pharmaceutical preparations.....	756	312	112.0	5,639.5
2841	2841	Soap and other detergents.....	642	199	31.5	2,038.8
2842	----	Polishes and sanitation goods.....	868	207	22.0	978.6
	2842	Polishes and sanitation goods.....	779	192	21.1	937.0
	2879	Agricultural chemicals, n.e.c.....	89	15	.8	41.6
2843	2843	Surface active agents.....	178	86	6.9	209.5
2844	2844	Toilet preparations.....	645	204	48.2	2,834.1
2851	----	Paints and allied products.....	1,637	712	68.5	1,869.7
	2851	Paints and allied products.....	1,599	687	65.9	1,791.7
	2891	Adhesives and sealants.....	38	25	2.6	78.0

# APPENDIX B-Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars).
2861	2861	Gum and wood chemicals.....	139	41	5.9	155.4
2871	----	Fertilizers.....	157	116	14.4	413.1
	2873	Nitrogenous fertilizers.....	7	5	.1	2.9
	2874	Phosphatic fertilizers.....	136	109	14.0	403.6
	2875	Fertilizers, mixing only.....	14	2	.3	6.6
2872	----	Fertilizers, mixing only.....	613	186	11.1	257.1
	2875	Fertilizers, mixing only.....	613	186	11.1	257.1
2879	2879	Agricultural chemicals, n.e.c.....	299	98	11.4	557.3
2891	----	Adhesives and gelatin.....	358	131	11.0	341.5
	2891	Adhesives and sealants.....	342	118	9.0	260.1
	2899	Chemical preparations, n.e.c.....	16	13	1.9	81.4
2892	2892	Explosives.....	92	50	18.6	281.7
2893	2893	Printing ink.....	407	145	9.6	232.0
2895	2895	Carbon black.....	37	33	2.9	137.6
2899	2899	Chemical preparations, n.e.c.....	1,590	347	35.1	1,043.3
2911	2911	Petroleum refining.....	323	277	100.8	4,594.7
2951	2951	Paving mixtures and blocks.....	964	169	13.9	403.1
2952	2952	Asphalt felts and coatings.....	235	140	15.6	443.3
2992	2992	Lubricating oils and greases.....	443	117	8.1	295.8
2999	2999	Petroleum and coal products, n.e.c.....	51	17	1.1	56.3
3011	3011	Tires and inner tubes.....	206	126	107.5	3,070.8
3021	----	Rubber footwear.....	81	50	28.1	332.5
	3021	Rubber and plastics footwear.....	81	50	28.1	332.5
3031	3031	Reclaimed rubber.....	20	9	.9	15.6
3069	----	Fabricated rubber products, n.e.c.....	1,294	746	142.6	2,386.2
	2891	Adhesives and sealants.....	38	21	1.6	49.6
	3041	Rubber and plastics hose and belting.....	74	62	30.1	580.1
	3069	Fabricated rubber products, n.e.c.....	1,116	606	99.0	1,573.1
	3293	Gaskets, packing and sealing devices.....	66	57	11.9	183.4
3079	----	Miscellaneous plastics products.....	7,129	3,138	326.6	5,513.8
	3021	Rubber and plastics footwear.....	26	24	3.5	37.8
	3041	Rubber and plastics hose and belting.....	16	11	1.8	38.6
	3079	Miscellaneous plastics products.....	7,087	3,103	321.3	5,437.4
3111	3111	Leather tanning and finishing.....	517	223	25.7	368.3
3121	- -	Industrial leather belting.....	53	14	1.0	15.1
	3199	Leather goods, n.e.c.....	50	11	.8	13.0
	3293	Gaskets, packing and sealing devices.....	3	3	.2	2.1
3131	----	Footwear cut stock.....	248	121	8.7	86.2
	3131	Boot and shoe cut stock and findings.....	248	121	8.7	86.2
3141	----	Shoes, except rubber.....	826	646	167.6	1,710.5
	3143	Men's footwear, except athletic.....	221	197	61.5	674.4
	3144	Women's footwear, except athletic.....	422	316	77.4	763.6
	3149	Footwear, except rubber, n.e.c.....	183	133	28.7	272.5
3142	3142	House slippers.....	91	66	8.5	85.7
3151	3151	Leather gloves and mittens.....	106	60	4.9	43.0
3161	3161	Luggage.....	277	130	17.1	194.1
3171	3171	Women's handbags and purses.....	444	214	22.2	201.5
3172	----	Personal leather goods.....	244	98	11.5	143.7
	3172	Personal leather goods, n.e.c.....	244	98	11.5	143.7
3199	3199	Leather goods, n.e.c.....	398	88	6.3	71.4
3211	3211	Flat glass.....	32	30	20.9	662.1
3221	3221	Glass containers.....	117	115	72.9	1,399.7
3229	3229	Pressed and blown glass, n.e.c.....	252	110	45.9	941.4
3231	3231	Products of purchased glass.....	913	284	33.7	668.9
3241	3241	Cement, hydraulic.....	198	171	30.0	1,153.5



# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3251	3251	Brick and structural clay tile.....	417	302	24.1	336.4
3253	3253	Ceramic wall and floor tile.....	83	56	8.3	112.3
3255	3255	Clay refractories.....	156	101	11.2	202.1
3259	3259	Structural clay products, n.e.c.....	119	70	8.2	119.8
3261	3261	Vitreous plumbing fixtures.....	59	40	9.6	186.8
3262	3262	Vitreous china food utensils.....	34	20	5.9	67.4
3263	3263	Fine earthenware food utensils.....	18	15	6.8	56.2
3264	3264	Porcelain electrical supplies.....	83	64	13.4	190.4
3269	3269	Pottery products, n.e.c.....	426	95	9.1	99.9
3271	3271	Concrete block and brick.....	1,388	416	22.8	438.5
3272	3272	Concrete products, n.e.c.....	3,595	923	67.7	1,190.1
3273	3273	Ready-mixed concrete.....	4,915	1,328	85.7	1,756.7
3274	3274	Lime.....	103	69	5.7	129.3
3275	3275	Gypsum products.....	114	84	11.2	325.1
3281	3281	Cut stone and stone products.....	908	192	15.0	191.4
3291	3291	Abrasive products.....	392	167	24.5	529.6
3292	3292	Asbestos products.....	132	90	20.2	409.2
3293	----	Gaskets and insulation.....	304	127	14.6	219.6
	3292	Asbestos products.....	10	7	.8	16.9
	3293	Gaskets, packing and sealing devices.....	294	120	13.8	202.8
3295	3295	Minerals, ground or treated.....	488	152	9.5	237.2
3296	3296	Mineral wool.....	108	75	18.0	441.5
3297	3297	Nonclay refractories.....	90	60	8.1	191.1
3299	3299	Nonmetallic mineral products, n.e.c.....	491	81	6.3	104.7
3312	3312	Blast furnaces and steel mills.....	364	251	469.1	10,304.7
3313	3313	Electrometallurgical products.....	40	31	9.5	217.2
3315	3315	Steel wire and related products.....	289	199	30.6	583.5
3316	3316	Cold finishing of steel shapes.....	125	93	20.1	504.6
3317	3317	Steel pipe and tubes.....	152	122	23.6	506.1
3321	3321	Gray iron foundries.....	993	723	138.4	2,257.0
3322	3322	Malleable iron foundries.....	73	64	22.5	342.6
3323	----	Steel foundries.....	334	263	57.9	881.6
	3324	Steel investment foundries.....	74	62	11.2	175.6
	3325	Steel foundries, n.e.c.....	260	201	46.7	706.0
3331	3331	Primary copper.....	31	31	17.2	487.8
3332	3332	Primary lead.....	16	15	2.8	128.7
3333	3333	Primary zinc.....	15	15	6.3	121.6
3334	3334	Primary aluminum.....	31	31	25.6	816.0
3339	3339	Primary nonferrous metals, n.e.c.....	84	32	6.7	151.5
3341	3341	Secondary nonferrous metals.....	381	184	17.8	410.9
3351	3351	Copper rolling and drawing.....	149	117	37.8	800.3
3352	----	Aluminum rolling and drawing.....	246	192	63.6	1,177.1
	3353	Aluminum sheet, plate, and foil.....	50	49	31.3	692.3
	3354	Aluminum extruded products.....	180	128	27.7	427.6
	3355	Aluminum rolling and drawing, n.e.c.....	16	15	4.6	57.3
3356	3356	Nonferrous rolling and drawing, n.e.c.....	167	97	18.1	374.1
3357	3357	Nonferrous wiredrawing and insulating.....	341	278	68.8	1,448.0
3361	----	Aluminum castings.....	1,005	430	45.7	718.3
	3361	Aluminum foundries.....	1,005	430	45.7	718.3
3362	----	Brass, bronze, and copper castings.....	507	195	15.4	236.9
	3362	Brass, bronze, and copper foundries.....	507	195	15.4	236.9
3369	----	Nonferrous castings, n.e.c.....	329	167	20.3	314.0
	3369	Nonferrous foundries, n.e.c.....	329	167	20.3	314.0

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees  (1,000)	Value added by manufacture, adjusted  (million dollars)
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
3391	----	Iron and steel forgings.....	280	180	34.3	661.8
	3462	Iron and steel forgings.....	280	180	34.3	661.8
3392	----	Nonferrous forgings.....	46	33	5.8	104.0
	3463	Nonferrous forgings.....	46	33	5.8	104.0
3399	----	Primary metal products, n.e.c.....	1,120	371	25.1	475.6
	3398	Metal heat treating.....	952	266	17.2	310.6
	3399	Primary metal products, n.e.c.....	168	105	7.9	165.0
3411	3411	Metal cans.....	396	309	68.5	1,815.8
3421	3421	Cutlery.....	134	69	13.4	322.3
3423	3423	Hand and edge tools, n.e.c.....	626	255	39.3	780.0
3425	3425	Handsaws and saw blades.....	91	52	6.6	127.5
3429	3429	Hardware, n.e.c.....	1,053	482	99.9	2,023.6
3431	3431	Metal sanitary ware.....	95	50	11.2	208.2
3432	3432	Plumbing fittings and brass goods.....	230	112	18.6	361.8
3433	----	Heating equipment, except electric.....	471	219	40.6	752.2
	3433	Heating equipment, except electric.....	432	191	30.9	561.6
	3585	Refrigeration and heating equipment.....	39	28	9.7	190.5
3441	3441	Fabricated structural metal.....	2,154	1,094	104.3	1,730.7
3442	3442	Metal doors, sash, and trim.....	1,558	646	70.7	1,003.7
3443	3443	Fabricated platework (boiler shops).....	1,486	795	93.0	1,758.7
3444	3444	Sheet metalwork.....	3,117	933	74.0	1,299.9
3446	3446	Architectural metalwork.....	1,459	250	20.9	311.8
3449	----	Miscellaneous metalwork.....	577	308	32.0	638.1
	3448	Prefabricated metal buildings.....	159	88	12.5	275.9
	3449	Miscellaneous metalwork.....	418	220	19.5	362.2
3451	3451	Screw machine products.....	1,804	612	40.5	648.5
3452	3452	Bolts, nuts, rivets, and washers.....	678	396	60.1	1,196.8
3461	----	Metal stampings.....	2,860	1,392	223.2	4,288.3
	3465	Automotive stampings.....	453	364	123.3	2,663.8
	3466	Crowns and closures.....	53	48	8.1	166.7
	3469	Metal stampings, n.e.c.....	2,356	982	92.0	1,461.0
3471	3471	Plating and polishing.....	3,264	825	54.6	741.2
3479	3479	Metal coating and allied services.....	1,497	372	27.6	379.2
3481	----	Miscellaneous fabricated wire products.....	1,494	627	56.8	844.5
	3495	Wire springs.....	284	216	23.7	340.7
	3496	Miscellaneous fabricated wire products.....	1,211	412	33.2	504.4
3491	----	Metal barrels, drums, and pails.....	157	99	10.2	188.8
	3412	Metal barrels, drums, and pails.....	157	99	10.2	188.8
3492	----	Safes and vaults.....	44	19	4.1	79.0
	3499	Fabricated metal products, n.e.c.....	44	19	4.1	79.0
3493	----	Steel springs.....	110	53	8.5	149.7
	3493	Steel springs, except wire.....	110	53	8.5	149.7
3494	3494	Valves and pipe fittings.....	780	464	94.3	1,751.2
3496	----	Collapsible tubes.....	20	17	2.6	29.0
	3499	Fabricated metal products, n.e.c.....	20	17	2.6	29.0
3497	3497	Metal foil and leaf.....	63	40	5.4	126.5
3498	3498	Fabricated pipe and fittings.....	423	202	17.5	363.1
3499	3499	Fabricated metal products, n.e.c.....	2,279	617	55.1	939.5
3511	----	Steam engines and turbines.....	75	46	46.2	1,225.3
	3511	Turbines and turbine generator sets.....	75	46	46.2	1,225.3
3519	3519	Internal combustion engines, n.e.c.....	178	108	69.9	1,674.2
3522	----	Farm machinery.....	1,583	625	122.5	2,648.0
	3523	Farm machinery and equipment.....	1,473	539	101.8	2,195.4
	3524	Lawn and garden equipment.....	110	86	20.7	453.4

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars)
3531	3531	Construction machinery.....	748	387	133.8	3,130.7
3532	3532	Mining machinery.....	240	124	21.3	393.2
3533	3533	Oilfield machinery.....	315	159	35.9	788.6
3534	3534	Elevators and moving stairways.....	154	88	15.0	310.2
3535	3535	Conveyors and conveying equipment.....	492	243	27.2	540.1
3536	3536	Hoists, cranes, and monorails.....	188	92	16.3	274.7
3537	3537	Industrial trucks and tractors.....	380	135	25.8	524.7
3541	3541	Machine tools, metal-cutting types.....	894	275	52.5	901.7
3542	----	Machine tools, metal-forming types.....	383	162	24.1	417.7
	3542	Machine tools, metal-forming types.....	383	162	24.1	417.7
3544	3544	Special dies, tools, jigs, and fixtures.....	6,616	1,266	97.8	1,797.4
3545	3545	Machine tool accessories.....	1,231	413	46.7	876.1
3548	----	Metalworking machinery, n.e.c.....	528	237	47.1	908.8
	3546	Power driven handtools.....	88	65	23.1	434.5
	3547	Rolling mill machinery.....	47	38	10.4	206.4
	3549	Metalworking machinery, n.e.c.....	393	134	13.6	267.9
3551	3551	Food products machinery.....	688	290	31.9	605.2
3552	3552	Textile machinery.....	579	225	32.7	487.9
3553	3553	Woodworking machinery.....	242	109	13.7	285.1
3554	3554	Paper industries machinery.....	218	109	15.3	254.0
3555	3555	Printing trades machinery.....	574	173	23.9	503.6
3559	3559	Special industry machinery, n.e.c.....	1,384	525	72.6	1,596.1
3561	----	Pumps and compressors.....	643	324	78.5	1,563.1
	3561	Pumps and pumping equipment.....	559	260	55.5	1,095.6
	3563	Air and gas compressors.....	84	64	22.9	467.5
3562	3562	Ball and roller bearings.....	132	92	49.2	898.7
3564	3564	Blowers and fans.....	396	172	23.5	468.8
3565	3565	Industrial patterns.....	1,021	97	8.5	161.0
3566	----	Power transmission equipment.....	505	284	51.9	986.6
	3562	Ball and roller bearings.....	4	2	1.8	33.2
	3566	Speed changers, drives, and gears.....	346	155	22.5	409.0
	3568	Power transmission equipment, n.e.c.....	155	127	27.7	544.4
3567	3567	Industrial furnaces and ovens.....	266	108	13.6	244.3
3569	3569	General industrial machinery, n.e.c.....	901	360	37.0	697.7
3572	----	Typewriters.....	21	12	12.4	371.3
	3579	Office machines, n.e.c.....	21	12	12.5	371.3
3573	3573	Electronic computing equipment.....	602	355	144.8	3,497.6
3574	----	Calculating and accounting machines.....	82	33	23.2	421.6
	3574	Calculating and accounting machines.....	79	30	22.5	407.0
	3579	Office machines, n.e.c.....	3	3	.7	14.5
3576	----	Scales and balances.....	97	44	6.7	129.7
	3576	Scales and balances, except laboratory.....	97	44	6.7	129.7
3579	3579	Office machines, n.e.c.....	193	82	21.3	484.3
3581	3581	Automatic merchandising machines.....	125	48	10.5	183.4
3582	----	Commercial laundry equipment.....	110	49	5.2	93.6
	3582	Commercial laundry equipment.....	107	47	4.8	88.2
	3633	Household laundry equipment.....	3	2	.4	5.4
3585	----	Refrigeration machinery.....	735	415	141.2	3,326.9
	3585	Refrigeration and heating equipment.....	735	415	141.2	3,326.9
3586	3586	Measuring and dispensing pumps.....	57	33	7.2	134.1
3589	3589	Service industry machines, n.e.c.....	706	232	24.4	503.6
3599	----	Miscellaneous machinery, except electrical.....	16,411	2,022	186.2	3,055.8
	3293	Gaskets, packing and sealing devices.....	11	4	1.8	40.3
	3592	Carburetors, pistons, rings, valves.....	113	72	26.7	500.0
	3599	Machinery, except electrical, n.e.c.....	16,287	1,946	157.8	2,515.5
3611	----	Electric measuring instruments.....	653	271	55.6	1,059.4
	3612	Transformers.....	8	7	.9	15.9
	3825	Instruments to measure electricity.....	645	265	54.7	1,046.8



## APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(1,000)	(million dollars)		
3612	3612	Transformers.....	208	129	45.9	741.4
3613	3613	Switchgear and switchboard apparatus.....	568	283	69.2	1,303.0
3621	3621	Motors and generators.....	425	257	90.3	1,475.2
3622	3622	Industrial controls.....	590	218	51.1	908.4
3623	----	Welding apparatus.....	166	80	15.5	353.5
	3623	Welding apparatus, electric.....	166	80	15.5	353.5
3624	3624	Carbon and graphite products.....	72	44	11.3	217.4
3629	3629	Electrical industrial apparatus, n.e.c.....	258	121	20.2	270.0
3631	3631	Household cooking equipment.....	84	51	23.3	412.0
3632	3632	Household refrigerators and freezers.....	36	25	34.1	790.8
3633	3633	Household laundry equipment.....	26	22	23.2	679.3
3634	3634	Electric housewares and fans.....	299	167	51.3	909.2
3635	3635	Household vacuum cleaners.....	36	24	11.2	299.5
3636	3636	Sewing machines.....	75	18	5.3	124.6
3639	3639	Household appliances, n.e.c.....	85	48	14.0	341.4
3641	3641	Electric lamps.....	143	72	31.5	724.4
3642	----	Lighting fixtures.....	1,174	544	71.8	1,298.3
	3645	Residential lighting fixtures.....	701	278	26.5	390.2
	3646	Commercial lighting fixtures.....	236	140	18.8	350.4
	3647	Vehicular lighting equipment.....	47	31	13.6	299.8
	3648	Lighting equipment, n.e.c.....	190	95	12.7	254.3
3643	3643	Current-carrying wiring devices.....	413	222	50.4	792.1
3644	3644	Noncurrent-carrying wiring devices.....	179	117	25.7	490.8
3651	3651	Radio and TV receiving sets.....	372	164	86.5	1,807.8
3652	3652	Phonograph records.....	567	119	20.3	375.6
3661	3661	Telephone and telegraph apparatus.....	203	110	134.4	2,650.1
3662	3662	Radio and TV communication equipment.....	1,773	921	319.2	5,803.1
3671	3671	Electron tubes, receiving type.....	25	13	11.4	173.8
3672	----	Cathode ray picture tubes.....	75	21	15.2	345.5
	3672	Cathode ray television picture tubes.....	75	21	15.2	345.5
3673	3673	Electron tubes, transmitting.....	53	38	20.5	342.8
3674	----	Semiconductors.....	327	198	97.6	1,735.1
	3674	Semiconductors and related devices.....	327	198	97.6	1,735.1
3679	----	Electronic components, n.e.c.....	2,382	1,164	190.9	2,713.6
	3675	Electronic capacitors.....	113	101	27.6	298.6
	3676	Electronic resistors.....	86	78	20.5	263.5
	3677	Electronic coils and transformers.....	248	206	24.2	228.7
	3678	Electronic connectors.....	91	79	18.1	345.6
	3679	Electronic components, n.e.c.....	1,844	700	100.5	1,577.2
3691	3691	Storage batteries.....	212	120	22.1	477.8
3692	3692	Primary batteries, dry and wet.....	48	31	8.4	221.6
3693	3693	X-ray apparatus and tubes.....	104	54	12.1	311.3
3694	3694	Engine electrical equipment.....	290	143	57.9	1,212.6
3699	----	Electrical equipment, n.e.c.....	995	189	19.3	263.9
	3699	Electrical equipment and supplies, n.e.c.....	995	189	19.3	263.9
3711	----	Motor vehicles.....	231	119	339.2	11,782.5
	3711	Motor vehicles and car bodies.....	231	119	339.2	11,782.5
3713	----	Truck and bus bodies.....	778	346	41.8	648.5
	3713	Truck and bus bodies.....	778	346	41.8	648.5
3714	3714	Motor vehicle parts and accessories.....	2,119	935	400.9	9,164.7
3715	3715	Truck trailers.....	255		24.7	449.3

# APPENDIX B—Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
			(number)	(number)		
			(number)	(number)	(1,000)	(million dollars)
3721	3721	Aircraft.....	168	86	231.8	1,083.0
3722	----	Aircraft engines and engine parts.....	261	184	125.5	2,498.3
	3724	Aircraft engines and engine parts.....	232	156	104.7	1,991.7
	3764	Space propulsion units and parts.....	29	28	20.8	506.6
3729	----	Aircraft equipment, n.e.c.....	742	352	123.1	2,562.8
	3728	Aircraft equipment, n.e.c.....	694	313	102.2	2,048.9
	3769	Space vehicle equipment, n.e.c.....	48	39	20.9	513.9
3731	3731	Ship building and repairing.....	455	277	144.6	1,881.3
3732	3732	Boat building and repairing.....	1,777	368	40.6	516.8
3741	----	Locomotives and parts.....	34	16	19.6	591.1
	3743	Railroad equipment.....	34	16	19.6	591.1
3742	----	Railroad and street cars.....	129	87	31.2	522.3
	3743	Railroad equipment.....	129	87	31.2	522.3
3751	----	Motorcycles, bicycles, and parts.....	226	53	17.7	316.6
	3751	Motorcycles, bicycles, and parts.....	222	52	17.6	315.2
	3799	Transportation equipment, n.e.c.....	4	1	.1	1.4
3791	----	Trailer coaches.....	1,705	968	106.7	1,485.5
	2451	Mobile homes.....	683	589	71.9	1,033.9
	3713	Truck and bus bodies.....	8	8	.8	11.2
	3792	Travel trailers and campers.....	1,000	362	33.3	435.4
	3799	Transportation equipment, n.e.c.....	14	9	.6	5.0
3799	----	Transportation equipment, n.e.c.....	588	230	21.9	322.8
	3523	Farm machinery and equipment.....	75	25	2.8	52.7
	3792	Travel trailers and campers.....	30	23	3.7	44.5
	3799	Transportation equipment, n.e.c.....	483	182	15.4	225.7
3811	3811	Engineering and scientific instruments.....	739	262	36.7	653.2
3821	----	Mechanical measuring devices.....	843	324	68.8	1,189.0
	3823	Process control instruments.....	187	128	35.6	620.4
	3824	Fluid meters and counting devices.....	61	43	8.8	180.9
	3829	Measuring and controlling devices, n.e.c.....	595	153	24.6	394.9
3822	----	Automatic temperature controls.....	131	62	30.7	511.8
	3822	Environmental controls.....	131	62	30.7	511.8
3831	----	Optical instruments and lenses.....	476	140	17.9	370.1
	3832	Optical instruments and lenses.....	476	140	17.9	370.1
3841	3841	Surgical and medical instruments.....	506	199	34.5	630.0
3842	3842	Surgical appliances and supplies.....	872	256	43.9	929.0
3843	3843	Dental equipment and supplies.....	429	107	12.4	262.3
3851	3851	Ophthalmic goods.....	499	125	26.6	416.3
3861	3861	Photographic equipment and supplies.....	627	225	96.0	4,087.9
3871	----	Watches and clocks.....	165	78	27.2	423.0
	3873	Watches, clocks, and watchcases.....	165	78	27.2	423.0
3872	----	Watchcases.....	37	21	3.6	42.9
	3873	Watches, clocks, and watchcases.....	37	21	3.6	42.9
3911	3911	Jewelry, precious metal.....	1,524	315	32.6	536.0
3912	----	Jewelers' findings and materials.....	239	63	5.7	75.2
	3915	Jewelers' materials and lapidary work.....	239	63	5.7	75.2
3913	----	Lapidary work.....	328	24	2.3	41.1
	3915	Jewelers' materials and lapidary work.....	328	24	2.3	41.1
3914	3914	Silverware and plated ware.....	206	72	13.1	206.8
3931	----	Musical instruments and parts.....	344	111	24.5	339.3
	3931	Musical instruments.....	344	111	24.5	339.3
3941	----	Games and toys.....	633	267	58.0	940.2
	3944	Games, toys, and children's vehicles.....	633	267	58.0	940.2
3942	3942	Dolls.....	243	105	10.2	98.3
3943	----	Children's vehicles, except bicycles.....	31	17	3.5	40.3
	3944	Games, toys, and children's vehicles.....	31	17	3.5	40.3

# APPENDIX B-Continued

## PART 2B. Distribution of 1967 SIC Industries Among 1972 SIC Industries—Continued

Industry code		Industry	Establishments		All employees	Value added by manufacture, adjusted
Old SIC	New SIC		Total	With 20 employees or more		
				(number)	(number)	(1,000)
3949	3949	Sporting and athletic goods, n.e.c.....	1,553	463	61.0	920.4
3951	3951	Pens and mechanical pencils.....	111	59	10.2	200.2
3952	3952	Lead pencils and art goods.....	144	49	7.1	108.2
3953	----	Marking devices.....	627	104	8.7	435.1
	3951	Pens and mechanical pencils.....	6	5	.7	13.5
	3953	Marking devices.....	621	99	8.1	121.5
3955	3955	Carbon paper and inked ribbons.....	84	52	5.7	113.4
3961	3961	Costume jewelry.....	766	208	21.4	275.7
3962	3962	Artificial flowers.....	263	53	4.8	57.5
3963	----	Buttons.....	186	51	4.0	51.8
	3963	Buttons.....	186	51	4.0	51.8
3964	3964	Needles, pins, and fasteners.....	267	125	20.2	334.5
3991	3991	Brooms and brushes.....	450	166	17.5	235.5
3993	3993	Signs and advertising displays.....	3,287	637	49.8	747.7
3994	----	Morticians' goods.....	515	189	14.8	210.3
	3995	Burial caskets.....	515	189	14.8	210.3
3996	3996	Hard surface floor coverings.....	20	11	5.8	212.0
3999	----	Manufactures, n.e.c.....	3,367	614	65.1	897.2
	3999	Manufacturing industries, n.e.c.....	3,367	614	65.1	897.2



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## APPENDIX C. Reporting Forms

This appendix contains reproductions of a representative selection of the reporting forms used in the 1972 economic censuses, with emphasis on the Census of Manufactures. The uses of each of them is described in the Introduction, section 7.

# APPENDIX C-Continued

DUPLICATE: 20 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2751; Approval Expires December 31, 1974

<p>FORM NC-X1A (Item 1A) (7-60-75)</p>	<p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS</p> <p><b>1973 REPORT OF COMPANY ORGANIZATION</b></p>	<p><b>NOTICE</b> - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>Refer to the <b>CENSUS FILE NUMBER</b> in any correspondence pertaining to this report</p> <p>Company name and address (Please correct any errors in name and address including ZIP code)</p>
<p>Please complete this report within 20 days after receipt and RETURN THIS COPY TO</p> <div style="float: right; text-align: right;"> <p>BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130</p> </div>		
<p><b>NOTE</b> - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. This list should include establishments of your company and each of its subsidiaries. To make it easier for you to complete this report, we have prelisted information that you have previously provided to the Census Bureau.</p> <p style="text-align: center;">READ THE INSTRUCTIONS ON THE REVERSE SIDE BEFORE COMPLETING THIS REPORT</p>		

**Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT**

This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS forms 941, 943, or CT-1) or Federal income returns (IRS forms 1065, 1120, 1120S, or 990C).

In Item 1A, based on Census records, we have prelisted (in numeric sequence) all EI numbers and their associated names and addresses where available. Bring this list up-to-date by correcting the prelisted EI number and name and address information in column (a), and completing columns (b) through (d) as indicated.

For some prelisted EI numbers, name and address information was not available. Please enter the name and address that applies in each case.

EI numbers of your company and its subsidiaries that are not prelisted in Item 1A should be added in Item 1B. If your company or any of its subsidiaries uses different EI numbers for reporting employment and income, be sure that there is a separate entry for each such EI number in either Item 1A or 1B.

Line No.	Employer Identification (EI) Number, name, and mailing address (Please correct any errors and supply missing information) (a)	Employees (during the pay period including March 12, 1973) (b)	Reporting status of EI number (c)	Status of company or subsidiary at the end of 1973 (Mark one box and complete as indicated) (d)
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>
	<p>EMPLOYER IDENTIFICATION NUMBER</p> <p>NAME</p> <p>NUMBER AND STREET</p> <p>CITY STATE ZIP CODE</p>	(Number)	<p>Did you report Federal employment taxes under this EI number during 1973?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p>	<p>1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME <input type="text"/> NUMBER AND STREET <input type="text"/> CITY STATE ZIP CODE <input type="text"/> 4 <input type="checkbox"/> Other - Explain <input type="text"/></p>

Enter All Additional Employer Identification Numbers in Item 1B and Complete Items 2 through 5

# APPENDIX C—Continued

## INSTRUCTIONS FOR COMPLETING FORM NC-X1A

### A. DEFINITIONS

- ▶ **Census File Number**—A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2, and 5A. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in items 1B or 5B.
- ▶ **Employer Identification Number**—The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- ▶ **Company or Firm**—A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment**—A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

### SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAD) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services
  - Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated), Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House to House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.

- ▶ **Subsidiary**—A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973**—All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations, include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments**—Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

### B. INSTRUCTIONS

- ▶ **Item 1—Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment**—This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS forms 941, 943, or CT-1) or income returns (IRS forms 1065, 1120, 1120S, or 990C). If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A—Listing of Employer Identification Numbers (Based on Census Records)**—All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available. If the EI number is currently used, correct any errors or omissions in the prelisted name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d). If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B—Your Listing of Additional Employer Identification Numbers**
  - Column (a)**—List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
  - Column (b)**—Report the number of employees during the pay period including March 12, 1973.
  - Column (c)**—Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
  - Column (d)**—Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "1" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

Additional copies of items 1B, 2, and 5B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

- ▶ **Item 2—Reconciliation of Employment Reported by EI Numbers and by Establishments**—Complete this item after you have finished items 5A and 5B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 5A and 5B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

**Column (a)**—The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

**Column (b)**—Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

**Column (c)**—For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 5A and 5B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 5A, and 5B for errors, omissions, or duplications.

If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in items 1A or 1B should have at least one establishment listed in item 5A or 5B; conversely, each establishment listed in item 5A or 5B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 5A or 5B. Therefore, in completing item 2 for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 5A or 5B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 5A or 5B for the income EI number. In completing item 2 for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3—Company Affiliation**—If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4—Certification**—After you have finished all items on the report, complete the certification as indicated.

- ▶ **Item 5—Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment**—This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 5A and 5B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in item 5A or 5B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 5A—Listing of Domestic Establishments (Based on Census Records)**—Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections to column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 5B—Your Listing of Additional Domestic Establishments**—List separately all domestic establishments of your company and its subsidiaries not prelisted in item 5A that are now in operation, under construction, or were in operation at any time during 1973. Please read the definition of an establishment above before completing this item.

**Column (a)**—Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

**Column (b)**—Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "None." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

**Column (c)**—Mark one box which best describes the principal business activity during 1973, mark Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Mark Central Administrative Offices (CAD) for an establishment primarily engaged in management and general administrative functions.

**Column (d)**—List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

- ▶ **Instructions for (e) and (f)**—Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

- ▶ **NOTE**—After you have completed item 5, please be sure to complete items 2, 3, and 4 before returning this form.



# APPENDIX C-Continued

DUE DATE: 20 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2731; Approval Expires December 31, 1974

FORM NC-X1B (Item 1A)  
(7-60-78)

U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION  
BUREAU OF THE CENSUS

## 1973 REPORT OF COMPANY ORGANIZATION

(This page includes Items 1A and 1B)

Please complete this report within 20 days  
after receipt and RETURN THIS COPY TO

BUREAU OF THE CENSUS  
1201 East Tenth Street  
Jeffersonville, Indiana 47130

**NOTE** - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. This list should include establishments of your company and each of its subsidiaries. To make it easier for you to complete this report, we have prelisted information that you have previously provided to the Census Bureau.

READ THE INSTRUCTIONS ON THE REVERSE SIDE  
BEFORE COMPLETING THIS REPORT

**NOTICE** - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

Company name and address (Please correct any errors in name and address including ZIP code)

### Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT

This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS forms 941, 943, or CT-1) or Federal income returns (IRS forms 1065, 1120, 1120S, or 990C).

If your company or any of its subsidiaries uses different EI numbers for reporting employment and income, be sure that there is a separate entry for each such EI number in either Item 1A or 1B.

In Item 1A, based on Census records, we have prelisted (in numeric sequence) all EI numbers and their associated names and addresses where available. Bring this list up-to-date by correcting the prelisted EI number and name and address information in column (a), and completing columns (b) through (d) as indicated.

For some prelisted EI numbers, name and address information was not available. Please enter the name and address that applies in each case.

In Item 1B add EI numbers that are currently used by your company or its domestic and foreign subsidiaries that are not prelisted in Item 1A. List separately in column (a) all Employer Identification (EI) Numbers and their associated names and addresses used at any time during 1973. For each added EI number complete columns (b) through (d) as indicated.

If you need more space for adding EI numbers, you may request additional pages or use a blank sheet of paper following the same format shown below in Item 1B. At the top of each sheet enter "Item 1B continued" and your company name, address, and Census File Number.

### Item 1A - LISTING OF EMPLOYER IDENTIFICATION NUMBERS (BASED ON CENSUS RECORDS)

Line number	Employer Identification (EI) Number, name, and mailing address (Please correct any errors and supply missing information)	Employees (during the pay period including March 12, 1973)	Reporting status of EI number	Status of company or subsidiary at the end of 1973 (Mark one box and complete as indicated)
	(a)	(b)	(c)	(d)
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	Did you report Federal employment taxes under this EI number during 1973? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 4 <input type="checkbox"/> Other - Explain <input type="text"/>
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	Did you report Federal employment taxes under this EI number during 1973? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 4 <input type="checkbox"/> Other - Explain <input type="text"/>
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	Did you report Federal employment taxes under this EI number during 1973? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	1 <input type="checkbox"/> Active 2 <input type="checkbox"/> Inactive - Date <input type="text"/> 3 <input type="checkbox"/> Sold - Mo./yr. of sale <input type="text"/> PURCHASER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 4 <input type="checkbox"/> Other - Explain <input type="text"/>

### Item 1B - YOUR LISTING OF ADDITIONAL EMPLOYER IDENTIFICATION NUMBERS - USE ITEM 2B FOR LISTING ADDITIONAL ESTABLISHMENTS

Line number	Employer Identification (EI) Number, name, and mailing address	Employees (during the pay period including March 12, 1973)	Reporting status of EI number	Explanation of additional companies acquired, reorganized or newly organized under a distinct EI number during 1973
	(a)	(b)	(c)	(d)
	EMPLOYER IDENTIFICATION NO. <input type="text"/> NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	Did you report Federal employment taxes under this EI number during 1973? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE <input type="text"/> FORMER OWNER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 6 <input type="checkbox"/> Newly organized - Date <input type="text"/> 7 <input type="checkbox"/> Other - Explain <input type="text"/>
	EMPLOYER IDENTIFICATION NO. <input type="text"/> NAME NUMBER AND STREET CITY STATE ZIP CODE	(Number)	Did you report Federal employment taxes under this EI number during 1973? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No	5 <input type="checkbox"/> Acquired - MONTH AND YEAR OF PURCHASE <input type="text"/> FORMER OWNER'S NAME NUMBER AND STREET CITY STATE ZIP CODE 6 <input type="checkbox"/> Newly organized - Date <input type="text"/> 7 <input type="checkbox"/> Other - Explain <input type="text"/>

Please Complete Items 2 through 4

## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1B

#### A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of Items 1A, 2A, and 2B. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- ▶ **Company or Firm** — A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** — A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

#### SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services — Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessionaire, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House-to-House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.
- ▶ **Subsidiary** — A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for Item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** — Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

#### B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and Its Subsidiaries, and Their 1973 Employment** — This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS Forms 941, 943, or CT-1) or income returns (IRS Forms 1065, 1120, 1120S or 990C). If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A — Listing of Employer Identification Numbers (Based on Census Records)** — All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available. If the EI number is currently used, correct any errors or omissions in the prelisted name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS Forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d). If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B — Your Listing of Additional Employer Identification Numbers**
  - Column (a) — List separately each EI number not prelisted in Item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
  - Column (b) — Report the number of employees during the pay period including March 12, 1973.
  - Column (c) — Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
  - Column (d) — Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in Item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

- ▶ **Item 2 — Domestic Establishments of your Company and Its Subsidiaries, and Their 1973 Employment** — This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 2A and 2B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in Item 2A or 2B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 2A — Listing of Domestic Establishments (Based on Census Records)** — Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. Identify in the establishment name those Leased Departments operated in a retail or service store as "leased dept." or "leased concession." The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — List separately all domestic establishments of your company and its subsidiaries not prelisted in Item 2A that were in operation, or under construction, during part or all of 1973. Please read the definition of an establishment above before completing this item.

Column (a) — Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

Column (b) — Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "none." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

Column (c) — Mark one box which best describes the principal business activity during 1973. Check Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Check Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

Column (d) — List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

Instructions for (e) and (f) — Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

Note — After you have completed item 2, please be sure to complete Items 2C, 3, and 4 before returning this form.

- ▶ **Item 2C — Reconciliation of Employment Reported by EI Numbers and by Establishments** — Complete this item after you have finished Items 2A and 2B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in Items 2A and 2B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

Column (a) — The Employer Identification (EI) Numbers are identical to those prelisted in Item 1A. Bring this list up-to-date by making the corrections previously made in Item 1A and adding any EI numbers that you added in Item 1B.

Column (b) — Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

Column (c) — For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both Items 2A and 2B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of \$% or 500 employees occur, examine the data that you reported in Items 1A, 1B, 2A, and 2B for errors, omissions, or duplications. If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in Item 1A or 1B should have at least one establishment listed in item 2A or 2B; conversely, each establishment listed in item 2A or 2B should have its EI number listed in item 1A or 1B. There are three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 2A or 2B. Therefore, in completing item 2C for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 2A or 2B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 2A or 2B for the income EI number. In completing item 2C for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.



## APPENDIX C—Continued

[illegible]

Please Complete Items 2 through 5



## APPENDIX C-Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1A

#### A. DEFINITIONS

- ▶ **Census File Number** - A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2, and 5A. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in items 1B or 5B.
- ▶ **Employer Identification Number** - The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.  
**Company or Firm** - A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** - A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

#### SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services
  - Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House to House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.
- ▶ **Subsidiary** - A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** - All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** - Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

#### B. INSTRUCTIONS

- ▶ **Item 1 - Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** - This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS forms 941, 943, or CT-1) or income returns (IRS forms 1065, 1120, 1120S, or 990C).  
If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A - Listing of Employer Identification Numbers (Based on Census Records)** - All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available.  
If the EI number is currently used, correct any errors or omissions in the pre-listed name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d).  
If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B - Your Listing of Additional Employer Identification Numbers**  
**Column (a)** - List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.  
**Column (b)** - Report the number of employees during the pay period including March 12, 1973.  
**Column (c)** - Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.  
**Column (d)** - Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "8" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

Additional copies of items 1B, 2, and 5B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

- ▶ **Item 2 - Reconciliation of Employment Reported by EI Numbers and by Establishments** - Complete this item after you have finished items 5A and 5B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 5A and 5B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

**Column (a)** - The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

**Column (b)** - Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

**Column (c)** - For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 5A and 5B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 5A, and 5B for errors, omissions, or duplications.

If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in items 1A or 1B should have at least one establishment listed in item 5A or 5B; conversely, each establishment listed in item 5A or 5B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 5A or 5B. Therefore, in completing item 2 for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 5A or 5B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 5A or 5B for the income EI number. In completing item 2 for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3 - Company Affiliation** - If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4 - Certification** - After you have finished all items on the report, complete the certification as indicated.

- ▶ **Item 5 - Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment** - This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 5A and 5B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in item 5A or 5B for each employment tax EI number listed in item 1A or 1B.

- ▶ **Item 5A - Listing of Domestic Establishments (Based on Census Records)** - Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number to column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number to column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 5B - Your Listing of Additional Domestic Establishments** - List separately all domestic establishments of your company and its subsidiaries not prelisted in item 5A that are now in operation, under construction, or were in operation at any time during 1973. Please read the definition of an establishment above before completing this item.

**Column (a)** - Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

**Column (b)** - Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "None." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

**Column (c)** - Mark one box which best describes the principal business activity during 1973, mark Auxiliary for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Mark Central Administrative Offices (CAO) for an establishment primarily engaged in management and general administrative functions.

**Column (d)** - List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

- ▶ **Instructions for (e) and (f)** - Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

- ▶ **NOTE** - After you have completed Item 5, please be sure to complete items 2, 3, and 4 before returning this form.

# APPENDIX C-Continued

FORM NC-X1B (Item 2A)		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report	
1973 REPORT OF COMPANY ORGANIZATION					
<p><b>Item 2 - DOMESTIC ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT AND PAYROLL</b></p> <p>This item should include an up-to-date list of all domestic establishments (business locations) of your company and its subsidiaries as identified in Items 1A and 1B that were in operation or under construction, during part or all of 1973. Exclude establishments in foreign countries; include establishments in all territories and possessions (Puerto Rico, Virgin Islands, Canal Zone, Guam, American Samoa and Trust Territory of Pacific Islands).</p> <p>In Item 2A we have prelisted establishments of your company and its subsidiaries, based on Census records. Bring this list up-to-date by correcting any errors or omissions in the prelisted information in column (a).</p> <p>and completing columns (b) and (c) as indicated. Establishments not prelisted in Item 2A should be listed by you in Item 2B.</p> <p>If more than one EI number is assigned to this establishment, report the employment tax EI number in item 2A or 2B. Ordinarily, there should be at least one establishment in item 2A or 2B for each employment tax EI number listed in Item 1A or 1B; if not, please explain in Item 2C.</p> <p><b>NOTE:</b> For your convenience in locating establishments prelisted below, they are grouped in the following sequence: Employer Identification Number, major kind of business, State, and city.</p>					
<p><b>Item 2A - LISTING OF DOMESTIC ESTABLISHMENTS (BASED ON CENSUS RECORDS)</b></p>					
Line number	Employer Identification (EI) Number, major kind of business, establishment name, and address of physical location (including county and ZIP code) (Add store or plant number, if any, and correct any errors or omissions) (a)		1973 Establishment data Report number of employees and payroll (\$1,000) for each establishment including part year operations (b)		Status of establishment at the end of 1973 (Mark one box and complete as indicated) (c)
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> In operation <input type="checkbox"/> Moved - Correct address in col. (a) <input type="checkbox"/> Sold or leased PURCHASER'S OR LESSEE'S NAME MONTH AND YEAR OF SALE/LEASE NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> Closed (no new owner or operator) dismantled or destroyed on <input type="checkbox"/> Idle or inactive (but still owned) <input type="checkbox"/> Other - Describe
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE		
	COUNTY				
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE
	Census use only	CENSUS FILE NO.	SC	IND. CODE	TE

Enter All Additional Establishments in Item 2B; Then Complete Items 2C, 3, and 4



## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1B

#### A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page of items 1A, 2A, and 2B. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the pages used for any entries in item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by all business firms and other legal entities to file Federal employment tax returns such as Form 941, Employer's Quarterly Federal Tax Return and Federal Income Returns such as Form 1120, U.S. Corporation Income Tax Return, and Form 1065, U.S. Partnership Return of Income.
- Company or Firm** — A legal entity, such as a sole proprietorship, partnership, corporation, cooperative, investment trust, etc., including both profit and non-profit organizations.
- ▶ **Establishment** — A single physical location within the United States and its territories where business is conducted or where services or industrial operations are performed. (For example: a factory, mill, store, hotel, movie theater, mine, farm, ranch, bank, railroad depot, airline terminal, sales office, warehouse, or central administrative office.) Where distinctly separate activities are performed at a single physical location (such as contract construction activities operated from the same physical location as a lumber yard), each activity should be treated as a separate establishment.

#### SPECIAL INSTRUCTIONS FOR SELECTED INDUSTRIES AND/OR ACTIVITIES

Please refer to the enclosed, separate booklet entitled, "Special Instructions" before completing forms.

These instructions include a general definition of an Establishment, Payroll, Central Administrative Office (CAO) and Auxiliary establishment, how to report Non-establishment Employees and special instructions for companies with activities falling in the below listed categories.

- Construction (general contractors, special trade contractors, subdividers, and operative builders)
- Oil and Gas Field Operations
- Manufacturing
- Transportation and Public Utilities
- Wholesale, Retail, and Selected Services — Commission Agent/Broker and Merchant Wholesaler, Liquor Stores (Government Operated Reported by Agency or Officials), Appliance Sales by Public Utility companies, Department or Concessions, Leased Service Stations, Contract Food Operators, Mail Order Sales, Vending Machine Operations, and Direct Selling Operations (House-to-House), New Car Dealers, Automotive Rental and Leasing, Building Cleaning and Maintenance, Guard Service, Laundries, Dry Cleaners, Photofinishing Firms, Engineering (Consulting and Design), Liaison or Customer Contact Office.
- ▶ **Subsidiary** — A company which is owned or controlled by another firm or company. Subsidiaries include firms in which your company owns more than fifty percent of the outstanding voting stock, as well as affiliated firms in which your company has the power to direct or cause the direction of the management and policies.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Include as employees all persons on paid sick leave, paid holidays, and paid vacations; include salaried officers and executives of incorporated firms. This definition is the same as the definition used for item 1 of Treasury Form 941, Employer's Quarterly Federal Tax Return.
- ▶ **Domestic Establishments** — Those establishments of your company and its subsidiaries that are physically located in the United States and its territories and possessions (Puerto Rico, Canal Zone, Virgin Islands, Guam, American Samoa, and Trust Territory of Pacific Islands).

#### B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** — This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries to report either Federal employment taxes (IRS Forms 941, 943, or CT-1) or income returns (IRS Forms 1065, 1120, 1120S or 990C). If your company or any of its subsidiaries uses different EI numbers in reporting employment and income for the same legal entity, be sure there is a separate entry for each such number in either 1A or 1B.
- ▶ **Item 1A — Listing of Employer Identification Numbers (Based on Census Records)** — All EI numbers (based on Census records) have been prelisted in numeric sequence. Their associated names and addresses are also prelisted where available. If the EI number is currently used, correct any errors or omissions in the prelisted name and address in column (a); report in column (b) the number of employees on the payroll during the pay period including March 12, 1973; indicate in column (c) whether the EI number is used in reporting Federal employment taxes on IRS Forms 941, 943, or CT-1. If the EI number is not used to file these IRS forms, column (b) should be zero. If the EI number is active, mark box "1" in column (d). If the EI number is no longer used by your company or its subsidiaries, but was used during the first quarter 1973 complete columns (b) and (c). In column (d) mark boxes 2-4 that apply. If operations previously reported under a prelisted EI number are now included under another EI number of your company, mark box "4" and indicate the item 1A or 1B EI number under which you are now reporting these activities. On the other hand, if you sold all the activities of a subsidiary but retained the EI number, mark box "3" and complete as indicated.
- ▶ **Item 1B — Your Listing of Additional Employer Identification Numbers**
  - Column (a) — List separately each EI number not prelisted in item 1A that is currently used by your company or its domestic and foreign subsidiaries. Also enter the name and mailing address of the subsidiary.
  - Column (b) — Report the number of employees during the pay period including March 12, 1973.
  - Column (c) — Indicate whether the EI number is used to report Federal employment taxes; if not, column (b) should be zero.
  - Column (d) — Mark the box which describes the reason for adding the EI number to the list. If you transferred operations from one EI number of your company and its subsidiaries to another EI number, mark box "7" and enter the former EI number. If you add a firm that was acquired through the purchase of stock, assets, etc., mark box "5" and report the date of purchase and the former owner's name and address. Also report this information for any subsidiary listed in item 1B that was specifically set up by your company to take over the operations of an acquired company, even though the acquired company was dissolved or liquidated.

- ▶ **Item 2 — Domestic Establishments of your Company and its Subsidiaries, and Their 1973 Employment** — This item should include an up-to-date list of all domestic establishments of your company and its subsidiaries as identified in items 1A and 1B. If more than one EI number is assigned to an establishment, report the employment tax EI number in items 2A and 2B. Except in these cases and for EI numbers used for activities wholly outside the United States and its territories and possessions, be sure there is at least one establishment in item 2A or 2B for each employment tax EI number listed in item 1A or 1B.
- ▶ **Item 2A — Listing of Domestic Establishments (Based on Census Records)** — Review each prelisted establishment. For establishments still in operation, correct any errors or omissions in the prelisted name, address, and EI number in column (a). Make sure that the address represents the ACTUAL PHYSICAL LOCATION, not a mailing address. If you assign a store or plant number to each of your establishments, please enter this number in the space provided. Identify in the establishment name those Leased Departments operated in a retail or service store as "leased dept." or "leased concession." The major kind of business description in column (a) is based on information previously reported to the Census Bureau.

For each establishment still in operation, mark box "1" in column (c) and report employees and payroll in column (b). If the establishment has changed its location (moved), mark box "2" and make necessary corrections in column (a) by lining out the imprinted information and writing in the new information above it. For establishments no longer in business, mark box "3," "4," or "6" in column (c) to explain the reason for the deletion. If operations previously reported under a prelisted EI number are now included under another EI number of your company, do not report these changes as a "sale" but correct the EI number in column (a). If you ceased operations at a location and then sold the building, report these cases as "closed," mark box "4," and give the date of closing.

- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — List separately all domestic establishments of your company and its subsidiaries not prelisted in item 2A that were in operation, or under construction, during part or all of 1973. Please read the definition of an establishment above before completing this item.

**Column (a)** — Provide the EI number, name, and address of the physical location of each added establishment. If you have assigned a store or plant number to any of these locations, also enter this in the space provided. In all cases, be sure to provide complete address information including the number and street, city, State, ZIP code, and county.

**Column (b)** — Report the number of employees on the establishment payroll during the pay period including March 12, 1973. If the location had no employees during the pay period, enter "none." Report first quarter establishment payroll and annual payroll before deductions in thousands of dollars.

**Column (c)** — Mark one box which best describes the principal business activity during 1973. Check **Box 1** for any establishment primarily engaged in performing supporting services for your own or affiliated company rather than your customers or clients. Check **Box 2** for an establishment primarily engaged in management and general administrative functions.

**Column (d)** — List in order of importance the principal products mined or made, kinds of retail or wholesale business, types of services performed or kind of construction work done and indicate the approximate percentage each was of your total receipts.

**Instructions for (e) and (f)** — Answer question (e) for acquired establishments. Complete (f) if the establishment is not yet in operation. Enter month and year you expect it to begin operation and the expected employment when fully operational.

**Note** — After you have completed item 2, please be sure to complete items 2C, 3, and 4 before returning this form.

- ▶ **Item 2C — Reconciliation of Employment Reported by EI Numbers and by Establishments** — Complete this item after you have finished items 2A and 2B. This item is to provide you and the Bureau of the Census with a systematic procedure for determining if the updated list of establishments in items 2A and 2B account for ALL DOMESTIC ACTIVITIES of your company and its subsidiaries.

**Column (a)** — The Employer Identification (EI) Numbers are identical to those prelisted in item 1A. Bring this list up-to-date by making the corrections previously made in item 1A and adding any EI numbers that you added in item 1B.

**Column (b)** — Enter the corresponding number of employees for each EI number. If the EI number has no employees, enter "None."

**Column (c)** — For each EI number, enter the sum of the employment figures for each establishment of the EI number, as reported in both items 2A and 2B. Compare this figure with the entry in column (b) and enter the difference in column (d). Where differences in excess of 5% or 500 employees occur, examine the data that you reported in items 1A, 1B, 2A, and 2B for errors, omissions, or duplications. If the difference still exists, please explain in column (e). In all cases except the three listed below, each EI number listed in item 1A or 1B should have at least one establishment listed in item 2A or 2B; conversely, each establishment listed in item 2A or 2B should have its EI number listed in item 1A or 1B. The three exceptions are:

1. If your company or any of its subsidiaries has been assigned an EI number covering activities wholly outside of the United States and its territories, it is not necessary to include the establishments covering these foreign activities in item 2A or 2B. Therefore, in completing item 2C for EI numbers assigned to your foreign activities, enter "Foreign" in column (b) and ignore columns (c) through (e).
2. If your company reports employment and income under different EI numbers for the same legal entity, you should report the establishments of this firm only once in item 2A or 2B with the EI number used to report employment taxes. In these cases, therefore, there will be no establishment in item 2A or 2B for the income EI number. In completing item 2C for these EI numbers, enter "None" in column (b) and indicate the appropriate employment tax EI number(s) in column (e).
3. If your company or any of its subsidiaries became inactive after March 12, 1973 pay period, complete columns (b)-(e). If there was an EI change or EI used only part of the year complete columns (b)-(e) if applicable.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is a subsidiary, enter the name, address and EI number of your parent company.

- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.



# APPENDIX C-Continued

DUPLICATE DATE: 20 DAYS AFTER RECEIPT OF FORM

O.M.B. No. 41-R2751; Approval Expires December 31, 1974

<p><b>FORM NC-X1C (Item 1A)</b> (7-80-78)</p> <p style="text-align: center;"><b>1973 REPORT OF COMPANY ORGANIZATION</b> (This page includes Items 1A and 1B)</p> <p>Please complete this report within 20 days after receipt and RETURN THIS COPY TO  <b>BUREAU OF THE CENSUS</b> 1201 East Tenth Street Jeffersonville, Indiana 47130</p> <p><b>NOTE</b> - The purpose of this form is to obtain an accurate and up-to-date list of your establishments, i.e., separate business locations that were in operation, or under construction during part or all of 1973. To make it easier for you to complete this report, we have pre-listed information that you have previously provided to the Census Bureau.</p> <p style="text-align: center;"><b>READ THE INSTRUCTIONS ON THE REVERSE SIDE BEFORE COMPLETING THIS REPORT</b></p>	<p><b>NOTICE</b> - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>Refer to this <b>CENSUS FILE NUMBER</b> in any correspondence pertaining to this report </p> <p>Company name and address (Please correct any errors in name and address including ZIP code)</p>
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**Item 1 - EMPLOYER IDENTIFICATION NUMBERS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT**

This item should include a list of all Employer Identification (EI) Numbers currently used by your company and its domestic and foreign subsidiaries in reporting either Federal employment taxes (IRS Forms 941, 943, or CT-1) or Federal income returns (IRS Forms 1065, 1120, 1120S, or 990C).

In Item 1A, based on Census records, we have pre-listed your company's EI number and name and address. Please make any corrections necessary to update these entries. Also complete columns (b) and (c) as indicated.

In Item 1B add EI numbers that are currently used by your company that are not pre-listed in Item 1A. List separately in column (a) all Employer Identification (EI) Numbers and their associated names and addresses. For each added EI number complete columns (b) and (c) as indicated.

If you need more space for adding EI numbers, you may request additional pages or use a blank sheet of paper following the same format shown below in Item 1B. At the top of each sheet enter "Item 1B continued" and your company name, address, and Census File Number.

**Item 1A - LISTING OF YOUR EMPLOYER IDENTIFICATION NUMBER (BASED ON CENSUS RECORDS)**

Line No.	Employer Identification (EI) Number, name, and mailing address (Please correct any errors and supply missing information)	Employees (during the pay period including March 12, 1973)	Status of company or subsidiary at the end of 1973 (Mark one box and complete as indicated)
	(a)	(b)	(c)
	<b>EMPLOYER IDENTIFICATION NUMBER</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <b>NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <div style="display: flex; justify-content: space-between;"> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>	(Number) <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div>	<div style="display: flex; flex-direction: column;"> <div>1 <input type="checkbox"/> <b>Active</b></div> <div>2 <input type="checkbox"/> <b>Inactive - Date</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>3 <input type="checkbox"/> <b>Sold (Mo./yr. of sale)</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>PURCHASER'S NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>4 <input type="checkbox"/> <b>Other - Explain</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>

**Item 1B - YOUR LISTING OF ADDITIONAL EMPLOYER IDENTIFICATION NUMBERS - USE ITEM 2B FOR LISTING ADDITIONAL ESTABLISHMENTS**

Line No.	Employer Identification (EI) Number, name, and mailing address	Employees (during the pay period including March 12, 1973)	Explanation of additional companies acquired, reorganized, or newly organized under a distinct EI number during 1973 (Mark one box and complete as indicated)
	(a)	(b)	(c)
	<b>EMPLOYER IDENTIFICATION NO.</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <div style="display: flex; justify-content: space-between;"> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>	(Number) <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div>	<div style="display: flex; flex-direction: column;"> <div>6 <input type="checkbox"/> <b>Acquired</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>MONTH AND YEAR OF PURCHASE</b></div> <div><b>FORMER OWNER'S NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>6 <input type="checkbox"/> <b>Newly organized - Date</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>7 <input type="checkbox"/> <b>Other - Explain</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>
	<b>EMPLOYER IDENTIFICATION NO.</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em; margin-bottom: 2px;"></div> <div style="display: flex; justify-content: space-between;"> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>	(Number) <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div>	<div style="display: flex; flex-direction: column;"> <div>6 <input type="checkbox"/> <b>Acquired</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>MONTH AND YEAR OF PURCHASE</b></div> <div><b>FORMER OWNER'S NAME</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>NUMBER AND STREET</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div><b>CITY</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>STATE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div> <b>ZIP CODE</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>6 <input type="checkbox"/> <b>Newly organized - Date</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> <div>7 <input type="checkbox"/> <b>Other - Explain</b> <div style="border: 1px solid black; width: 100%; height: 1.2em;"></div></div> </div>
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Instructions on Reverse Side

## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1C

#### A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries to Item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by employers to file Quarterly Federal Tax Return (IRS 941) and Federal income returns (such as Form 1120, U.S. Corporation Income Tax Return and Form 1065, U.S. Partnership Return of Income).
- ▶ **Establishment** — A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** — Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period Including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** — The gross earnings paid to employees prior to any deductions.

#### B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and Its Subsidiaries, and Their 1973 Employment** — List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
- ▶ **Item 1A — Listing of Your Employer Identification Number (Based on Census Records)** — We have listed your EI number as reported to the Census Bureau in the past. Please correct any errors or omissions in the prelisted name and address in column (a) and complete columns (b) and (c). If the EI number was only used to report employment and income for part of 1973, enter the part year information and the status of the company at the end of the year.
- ▶ **Item 1B — Your List of Additional Employer Identification Numbers** — If you purchased another company or organized a subsidiary company, enter each additional EI number in Item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
- ▶ **Item 2A — Establishments of Your Company and Its Subsidiaries, and Their 1973 Employment and Payroll** — We have prelisted the individual business locations (establishments) that make up the EI number in Item 1A. Please correct the name or address if necessary and complete columns (b) and (c) for each location. Estimates are acceptable if book figures are not readily available.
- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — If you added additional business locations under your original EI number, report in Item 2B for each location. Also, if you added additional EI numbers in Item 1A, list the individual locations for each EI number in Item 2B. The addresses should represent the physical location, not a mailing address. If your employment and payroll records are not kept for individual locations, estimate for the separate locations. Report First Quarter establishment payroll and Annual payroll in thousands of dollars.

EXAMPLE — If figure is \$25,428.28:

• PREFERRED METHOD  $\longrightarrow \frac{25}{(\$1,000)}$

Column (c) — Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is considered a subsidiary, enter the name, address, and EI number of your parent company.
- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

# APPENDIX C—Continued

Form NC-X1C (Item 2A) 17-50-733		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report	
1973 REPORT OF COMPANY ORGANIZATION					
Item 2 — DOMESTIC ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES, AND THEIR 1973 EMPLOYMENT AND PAYROLL					
<p>This item should include an up-to-date list of all domestic establishments (business locations) of your company and its subsidiaries that were in operation, or under construction, during part or all of 1973.</p> <p>In Item 2A we have prelisted establishments of your company based on Census records. Bring this list up-to-date by correcting any errors or</p>			<p>omissions in the prelisted information in column (a) and completing columns (b) and (c) as indicated. Establishments not prelisted in Item 2A should be listed by you in Item 2B.</p> <p>Be sure that there is at least one establishment in Item 2A or 2B for your company and each subsidiary listed in Items 1A and 1B.</p>		
Item 2A — LISTING OF DOMESTIC ESTABLISHMENTS (BASED ON CENSUS RECORDS)					
Line No.	Employer Identification (EI) Number, major kind of business, establishment name, and address of physical location (including county and ZIP code) (Add store or plant number, if any, and correct any errors or omissions) (a)		1973 Establishment data Report number of employees and payroll (\$1,000) for each establishment include part year operations (b)		Status of establishment at end of 1973 (Mark one box and complete as indicated) (c)
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> 1 In operation <input type="checkbox"/> 2 Moved — Correct address in col. (a) <input type="checkbox"/> 3 Sold or leased — MONTH AND YEAR OF SALE/LEASE PURCHASER'S OR LESSEE'S NAME NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> 4 Closed (no new owner or operator), dismantled, or destroyed on — DATE <input type="checkbox"/> 5 Idle or inactive (but still owned) — <input type="checkbox"/> 6 Other — Describe —
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE	Total annual payroll for 1973 before deductions (\$1,000)	
	COUNTY				
	Census use only	CENSUS FILE NO.	ISC	IND. CODE	ITE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> 1 In operation <input type="checkbox"/> 2 Moved — Correct address in col. (a) <input type="checkbox"/> 3 Sold or leased — MONTH AND YEAR OF SALE/LEASE PURCHASER'S OR LESSEE'S NAME NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> 4 Closed (no new owner or operator), dismantled, or destroyed on — DATE <input type="checkbox"/> 5 Idle or inactive (but still owned) — <input type="checkbox"/> 6 Other — Describe —
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE	Total annual payroll for 1973 before deductions (\$1,000)	
	COUNTY				
	Census use only	CENSUS FILE NO.	ISC	IND. CODE	ITE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> 1 In operation <input type="checkbox"/> 2 Moved — Correct address in col. (a) <input type="checkbox"/> 3 Sold or leased — MONTH AND YEAR OF SALE/LEASE PURCHASER'S OR LESSEE'S NAME NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> 4 Closed (no new owner or operator), dismantled, or destroyed on — DATE <input type="checkbox"/> 5 Idle or inactive (but still owned) — <input type="checkbox"/> 6 Other — Describe —
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE	Total annual payroll for 1973 before deductions (\$1,000)	
	COUNTY				
	Census use only	CENSUS FILE NO.	ISC	IND. CODE	ITE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> 1 In operation <input type="checkbox"/> 2 Moved — Correct address in col. (a) <input type="checkbox"/> 3 Sold or leased — MONTH AND YEAR OF SALE/LEASE PURCHASER'S OR LESSEE'S NAME NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> 4 Closed (no new owner or operator), dismantled, or destroyed on — DATE <input type="checkbox"/> 5 Idle or inactive (but still owned) — <input type="checkbox"/> 6 Other — Describe —
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE	Total annual payroll for 1973 before deductions (\$1,000)	
	COUNTY				
	Census use only	CENSUS FILE NO.	ISC	IND. CODE	ITE
	EMPLOYER IDENTIFICATION NO.	MAJOR KIND OF BUSINESS	Employees (during the pay period including March 12, 1973) (Number)	Payroll for the 1st quarter of 1973 (\$1,000)	<input type="checkbox"/> 1 In operation <input type="checkbox"/> 2 Moved — Correct address in col. (a) <input type="checkbox"/> 3 Sold or leased — MONTH AND YEAR OF SALE/LEASE PURCHASER'S OR LESSEE'S NAME NUMBER AND STREET CITY STATE ZIP CODE <input type="checkbox"/> 4 Closed (no new owner or operator), dismantled, or destroyed on — DATE <input type="checkbox"/> 5 Idle or inactive (but still owned) — <input type="checkbox"/> 6 Other — Describe —
	NAME	STORE OR PLANT NO.			
	NUMBER AND STREET OF PHYSICAL LOCATION				
	CITY	STATE	ZIP CODE	Total annual payroll for 1973 before deductions (\$1,000)	
	COUNTY				
	Census use only	CENSUS FILE NO.	ISC	IND. CODE	ITE

Enter All Additional Establishments in Item 2B; Then Complete Items 3 and 4



## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1C

#### A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries in Item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by employers to file Quarterly Federal Tax Return (IRS 941) and Federal income returns (such as Form 1120, U.S. Corporation Income Tax Return and Form 1065, U.S. Partnership Return of Income).
- ▶ **Establishment** — A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** — Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** — The gross earnings paid to employees prior to any deductions.

#### B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and Its Subsidiaries, and Their 1973 Employment** — List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
- ▶ **Item 1A — Listing of Your Employer Identification Number (Based on Census Records)** — We have listed your EI number as reported to the Census Bureau in the past. Please correct any errors or omissions in the prelisted name and address in column (a) and complete columns (b) and (c). If the EI number was only used to report employment and income for part of 1973, enter the part year information and the status of the company at the end of the year.
- ▶ **Item 1B — Your List of Additional Employer Identification Numbers** — If you purchased another company or organized a subsidiary company, enter each additional EI number in Item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
- ▶ **Item 2A — Establishments of Your Company and Its Subsidiaries, and Their 1973 Employment and Payroll** — We have prelisted the individual business locations (establishments) that make up the EI number in Item 1A. Please correct the name or address if necessary and complete columns (b) and (c) for each location. Estimates are acceptable if book figures are not readily available.
- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — If you added additional business locations under your original EI number, report in Item 2B for each location. Also if you added additional EI numbers in Item 1A, list the individual locations for each EI number in Item 2B. The addresses should represent the physical location, not a mailing address. If your employment and payroll records are not kept for individual locations, estimate for the separate locations. Report First Quarter establishment payroll and Annual payroll in thousands of dollars.

EXAMPLE — If figure is \$25,428.28:

• PREFERRED METHOD  $\longrightarrow \frac{25}{(\$1,000)}$

Column (c) — Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is considered a subsidiary, enter the name, address, and EI number of your parent company.
- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

## APPENDIX C—Continued

[illegible]

## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING FORM NC-X1C

#### A. DEFINITIONS

- ▶ **Census File Number** — A Census File Number has been assigned to your company and appears in the upper right-hand corner of each page which contains prelisted information. Always refer to the complete number in any correspondence with the Census Bureau in order to expedite a reply. Also, be sure to fill in the Census File Number in the upper right-hand corner of the page(s) used for any entries in item 2B.
- ▶ **Employer Identification Number** — The nine-digit taxpayer identification number assigned by the Internal Revenue Service and used by employers to file Quarterly Federal Tax Return (IRS 941) and Federal income returns (such as Form 1120, U.S. Corporation Income Tax Return and Form 1065, U.S. Partnership Return of Income).
- ▶ **Establishment** — A single physical location where business is conducted or services performed.
- ▶ **Subsidiary** — Another company that is owned or controlled by your firm.
- ▶ **Number of Employees During the Pay Period including March 12, 1973** — All full-time and part-time employees on the payroll during the March 12 pay period. Report the same number of employees you reported on IRS Employers Form 941 or 943.
- ▶ **Payroll** — The gross earnings paid to employees prior to any deductions.

#### B. INSTRUCTIONS

- ▶ **Item 1 — Employer Identification Numbers of Your Company and its Subsidiaries, and Their 1973 Employment** — List all Employer Identification (EI) Numbers used by your company to report either Federal employment (IRS Form 941, 942 or 943) or income (IRS Forms 1065, 1120, 1120S or 990C).
- ▶ **Item 1A — Listing of Your Employer Identification Number (Based on Census Records)** — We have listed your EI number as reported to the Census Bureau in the past. Please correct any errors or omissions in the prelisted name and address in column (a) and complete columns (b) and (c). If the EI number was only used to report employment and income for part of 1973, enter the part year information and the status of the company at the end of the year.
- ▶ **Item 1B — Your List of Additional Employer Identification Numbers** — If you purchased another company or organized a subsidiary company, enter each additional EI number in item 1B and complete columns (b) and (c) for each EI number. In column (c) mark the box which describes the reason for adding the EI number to the list.
- ▶ **Item 2A — Establishments of Your Company and its Subsidiaries, and Their 1973 Employment and Payroll** — We have prelisted the individual business locations (establishments) that make up the EI number in item 1A. Please correct the name or address if necessary and complete columns (b) and (c) for each location. Estimates are acceptable if book figures are not readily available.
- ▶ **Item 2B — Your Listing of Additional Domestic Establishments** — If you added additional business locations under your original EI number, report in item 2B for each location. Also if you added additional EI numbers in item 1A, list the individual locations for each EI number in item 2B. The addresses should represent the physical location, not a mailing address. If your employment and payroll records are not kept for individual locations, estimate for the separate locations. Report First Quarter establishment payroll and Annual payroll in thousands of dollars.

EXAMPLE — If figure is \$25,428.28:

• PREFERRED METHOD →  $\frac{25}{(\$1,000)}$

Column (c) — Mark one box which best describes the principal business activity during 1973. In column (d) enter the most important products you sell or the major service you offer. Be as specific as possible for the correct industrial classification of your operations.

- ▶ **Item 3 — Company Affiliation** — If your company is owned or controlled by another company, i.e., your company is considered a subsidiary, enter the name, address, and EI number of your parent company.
- ▶ **Item 4 — Certification** — After you have finished all items on the report, complete the certification as indicated.

Additional copies of items 1B and 2B are available upon request. If you prefer, you may use your own paper to list additional subsidiaries, EI numbers and establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.



# APPENDIX C—Continued

DUE DATE: 20 Days after Receipt Form NC-X2 10-9-72		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS		Form Approved: OMB No. 41-571098 <b>NOTICE</b> —Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.	
<h2 style="margin: 0;">1972 ECONOMIC CENSUSES</h2> <p style="margin: 10px 0 0 0;">LISTING OF ADDITIONAL ESTABLISHMENTS</p>		In correspondence pertaining to this report please refer to this Census File Number			
Please complete this report within 20 days after receipt and RETURN TO		<b>BUREAU OF THE CENSUS</b> 1201 East Tenth Street Jeffersonville, Indiana 47130			
<b>NOTE:</b> Additional copies of this form are available upon request. If you prefer, list additional establishments on your own paper. BE SURE TO ENTER THE CENSUS FILE NUMBER in the upper right-hand corner of each additional sheet.		(Please correct any error in name and address including ZIP code)			
<b>INSTRUCTIONS</b>					
<p>List below ALL establishments of your firm and its subsidiaries located in the U.S. or any of its territories for which you did NOT receive a 1972 Census of Business, Construction, Manufactures, or Mineral Industries report form, or which are not shown in the enclosed listing for your firm. Include those establishments acquired by you through purchase, lease, construction, or other method of acquisition; include those which were in operation or under construction at any time during 1972. For acquired establishments, also report the former owner or operator in column (f). Each additional establishment should be listed on a SEPARATE LINE, except as specified in the enclosed Special Reporting Instructions.</p>					
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including county and ZIP code)		Kind of business activity in 1972		Mark operating status during 1972	Approximate number of employees
(a)		(b)		(c)	(d)
EMPLOYER IDENTIFICATION NUMBER		<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other—Specify		PRODUCTS, BUSINESS, SERVICES, ETC. <input type="checkbox"/> Operated during any part of 1972—Complete col. (e) → <input type="checkbox"/> Under construction or renovation, NOT operated during 1972	
NAME		STORE OR PLANT NO.		(Number)	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
CITY		STATE		ZIP CODE	
COUNTY		COUNTY		COUNTY	
(f) Was this establishment acquired from another company?		<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No		Name and address of former owner or operator	
CENSUS USE ONLY		CENSUS FILE NO.		SCE	
EMPLOYER IDENTIFICATION NUMBER		EI		T/O	
NAME		STORE OR PLANT NO.		INO. CODE	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
CITY		STATE		ZIP CODE	
COUNTY		COUNTY		COUNTY	
(f) Was this establishment acquired from another company?		<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No		Name and address of former owner or operator	
CENSUS USE ONLY		CENSUS FILE NO.		SCE	
EMPLOYER IDENTIFICATION NUMBER		EI		T/O	
NAME		STORE OR PLANT NO.		INO. CODE	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
CITY		STATE		ZIP CODE	
COUNTY		COUNTY		COUNTY	
(f) Was this establishment acquired from another company?		<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No		Name and address of former owner or operator	
CENSUS USE ONLY		CENSUS FILE NO.		SCE	
EMPLOYER IDENTIFICATION NUMBER		EI		T/O	
NAME		STORE OR PLANT NO.		INO. CODE	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
CITY		STATE		ZIP CODE	
COUNTY		COUNTY		COUNTY	
(f) Was this establishment acquired from another company?		<input type="checkbox"/> Yes → Month and year of purchase <input type="checkbox"/> No		Name and address of former owner or operator	
CENSUS USE ONLY		CENSUS FILE NO.		SCE	
EMPLOYER IDENTIFICATION NUMBER		EI		T/O	
NAME		STORE OR PLANT NO.		INO. CODE	
NUMBER AND STREET OF PHYSICAL LOCATION		CITY		STATE	
CITY		STATE		ZIP CODE	
COUNTY		COUNTY		COUNTY	

Continued on reverse side

# APPENDIX C –Continued

LISTING OF ADDITIONAL ESTABLISHMENTS											
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including county and ZIP code)				Kind of business activity in 1972		Principal products mined or made; kinds of retail or wholesale business, types of services performed, or kinds of construction work done (List in order of importance)		Mark operating status during 1972		Approximate number of employees	
(a)				(b)		(c)		(d)		(e)	
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____		PRODUCTS, BUSINESS, SERVICES, ETC.		<input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) →  <input type="checkbox"/> Under construction or renovation, NOT operated during 1972		(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE		ZIP CODE					
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase		Name and address of former owner or operator					
<div>CENSUS USE ONLY</div> <div>CENSUS FILE NO. SCE EI T/O INO. CODE WT. TAB NO. FORM CCS</div>											
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____		PRODUCTS, BUSINESS, SERVICES, ETC.		<input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) →  <input type="checkbox"/> Under construction or renovation, NOT operated during 1972		(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE		ZIP CODE					
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase		Name and address of former owner or operator					
<div>CENSUS USE ONLY</div> <div>CENSUS FILE NO. SCE EI T/O INO. CODE WT. TAB NO. FORM CCS</div>											
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____		PRODUCTS, BUSINESS, SERVICES, ETC.		<input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) →  <input type="checkbox"/> Under construction or renovation, NOT operated during 1972		(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE		ZIP CODE					
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase		Name and address of former owner or operator					
<div>CENSUS USE ONLY</div> <div>CENSUS FILE NO. SCE EI T/O INO. CODE WT. TAB NO. FORM CCS</div>											
EMPLOYER IDENTIFICATION NUMBER				<input type="checkbox"/> Retail trade <input type="checkbox"/> Manufacturing <input type="checkbox"/> Wholesale trade <input type="checkbox"/> Mfrs.' sales branch or sales office <input type="checkbox"/> Construction <input type="checkbox"/> Minerals extraction <input type="checkbox"/> Administrative office or auxiliary <input type="checkbox"/> Other - Specify _____		PRODUCTS, BUSINESS, SERVICES, ETC.		<input type="checkbox"/> Operated during any part of 1972 - Complete col. (e) →  <input type="checkbox"/> Under construction or renovation, NOT operated during 1972		(Number)	
NAME				STORE OR PLANT NO.							
NUMBER AND STREET OF PHYSICAL LOCATION											
CITY				STATE		ZIP CODE					
COUNTY											
(f) Was this establishment acquired from another company? <input type="checkbox"/> Yes → <input type="checkbox"/> No				Month and year of purchase		Name and address of former owner or operator					
<div>CENSUS USE ONLY</div> <div>CENSUS FILE NO. SCE EI T/O INO. CODE WT. TAB NO. FORM CCS</div>											
CERTIFICATION		Name of person to contact regarding this report				Address (if different from label address)				Telephone	
		Area code		Number		Extension					
		This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.									
		Signature of authorized person				Title				Date	

FORM NC-22 (2-5-72)

# APPENDIX C—Continued

DATE: 20 DAYS AFTER RECEIPT OF FORM

Form Approved, O.M.B. No. 41-572007

<p>FORM <b>NC-X3</b> (0300)</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p>	<p><b>1972 ECONOMIC CENSUSES GENERAL SCHEDULE</b></p> <p style="text-align: right;">BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130</p> <p style="text-align: right;">Please complete this form and RETURN TO</p>
<p><b>NOTICE</b> — Response to this inquiry is required by law, Title 13, U.S. Code. By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p>	
<p>In correspondence pertaining to this report, please refer to this Census File Number</p> <p style="text-align: center;">NC-X3 (0300)</p> <p style="text-align: right;">Employer Identification Number</p>	
<p>Please correct errors in name, address and ZIP code. ENTER street and number if not shown.</p>	
<p style="text-align: center;"><b>INTRODUCTION AND GENERAL INSTRUCTIONS</b></p> <p>The Bureau of the Census is now conducting a census of establishments primarily engaged in the types of activities described in <b>Section A, item 1</b> below. However, our records do not contain sufficient information on the kind of business or activity carried on at your establishment. Please complete <b>Section A, item 1</b> below, to provide this information. Then proceed according to the instructions given in <b>item 2</b> (i.e., if you are primarily engaged in one of the business activities described in boxes 1 through 33 or 59 below, complete <b>Section A</b> and ALL of <b>Section B</b>; otherwise, complete only <b>Section A</b> and the certification in <b>Section B, item 9</b>, and return the form in the envelope provided).</p> <p>Please refer to the <b>Census File Number</b> (the 11-digit number in the upper left corner of the address label), if you write to us about this report. This will expedite our processing of correspondence.</p> <p>If book figures are not available, carefully prepared estimates are acceptable.</p>	
<p style="text-align: center;"><b>Section A — KIND OF BUSINESS OR ACTIVITY DURING 1972</b></p>	
<p><b>Item 1 — BUSINESS OR ACTIVITY</b></p> <p>Mark the box or boxes which best describe the kind of business or activity in which your company was primarily engaged in 1972.</p>	
<p><input type="checkbox"/> <b>PUBLIC WAREHOUSING AND STORAGE</b></p> <p><input type="checkbox"/> <b>MINING</b> — Extracting or quarrying minerals (metallic and non-metallic ores; stone, sand, gravel; oil and gas; coal; etc.); minerals exploration and development; contract mineral services</p> <p><input type="checkbox"/> <b>MANUFACTURING</b> — Fabricating, assembling, or processing materials into new products. Also includes such activities as: logging; apparel jobbing; machine shop repair; and miscellaneous services "for the manufacturing trade."</p> <p><b>CONSTRUCTION</b> (Includes new and/or maintenance and repair)</p> <p><input type="checkbox"/> General contractor (buildings, roads, etc.)</p> <p><input type="checkbox"/> Special trade contractor (painting, carpentry, plumbing, etc.)</p> <p><input type="checkbox"/> Operative or merchant builder; land subdivider and developer</p> <p><b>WHOLESALE TRADE</b> — Selling merchandise to retailers; industrial, commercial, professional, institutional users; farmers; and government</p> <p><input type="checkbox"/> Merchant wholesaler</p> <p><input type="checkbox"/> Merchandise agent or broker</p> <p><input type="checkbox"/> Other type of wholesaler — Specify <u>7</u></p> <p><b>RETAIL TRADE</b> — Selling merchandise to the general public (includes eating and drinking places and gasoline service stations)</p> <p><input type="checkbox"/> Selling at this establishment</p> <p><input type="checkbox"/> Mail order (catalog selling)</p> <p><input type="checkbox"/> House-to-house (direct selling)</p> <p><input type="checkbox"/> Operating merchandise vending machines</p> <p><input type="checkbox"/> Other type of retailer — Specify <u>7</u></p> <p><b>SELECTED SERVICES</b> (Includes amusement and recreation services)</p> <p><input type="checkbox"/> Motel or tourist court</p> <p><input type="checkbox"/> Dry cleaning plant</p> <p><input type="checkbox"/> Coin operated dry cleaner or laundry</p> <p><input type="checkbox"/> Laundry or dry-cleaning agent "retail store"</p> <p><input type="checkbox"/> Beauty shop</p> <p><input type="checkbox"/> Barber shop</p> <p><input type="checkbox"/> Funeral service</p> <p><input type="checkbox"/> General auto repair</p> <p><input type="checkbox"/> Law office</p> <p><input type="checkbox"/> Truck carrier, local service, except ICC regulated</p> <p><input type="checkbox"/> Other services (e.g., repair, business services, theaters, amusement, recreation, travel agency.) Specify kind <u>7</u></p>	<p><b>AGRICULTURE, FORESTRY, FISHERY</b></p> <p><input type="checkbox"/> Farm or ranch</p> <p><input type="checkbox"/> Feed lot operations (cattle, hogs, and lambs)</p> <p><input type="checkbox"/> Poultry operations, including hatcheries</p> <p><input type="checkbox"/> Horticultural production (greenhouse products and nursery products)</p> <p><input type="checkbox"/> Animal specialties (horses, rabbits, fur-bearing animals in captivity, fish in captivity)</p> <p><input type="checkbox"/> Agricultural services (e.g., soil preparation, custom harvesting, cotton ginning, labor and management services)</p> <p><input type="checkbox"/> Veterinarian, animal hospital</p> <p><input type="checkbox"/> Forestry (e.g., timber tracts, forest nursery)</p> <p><input type="checkbox"/> Fishery</p> <p><b>TRANSPORTATION</b> (If business is a travel agency, mark box 25; if a non-ICC regulated motor carrier, mark box 24.)</p> <p><input type="checkbox"/> Railroad</p> <p><input type="checkbox"/> Taxicab</p> <p><input type="checkbox"/> Water transportation</p> <p><input type="checkbox"/> Air transportation</p> <p><input type="checkbox"/> Pipeline</p> <p><input type="checkbox"/> Motor carrier (ICC regulated only)</p> <p><b>COMMUNICATION</b></p> <p><input type="checkbox"/> Telephone or telegraph service</p> <p><input type="checkbox"/> Radio or television broadcasting</p> <p><b>ELECTRIC, GAS, SANITARY SERVICES</b></p> <p><b>FINANCE, INSURANCE, REAL ESTATE</b></p> <p><input type="checkbox"/> Finance (bank, credit agency, security dealer, financial leasing)</p> <p><input type="checkbox"/> Insurance</p> <p><input type="checkbox"/> Real estate (except hotel operation, land subdividers and developers, and operative builders)</p> <p><b>MEDICAL AND OTHER HEALTH SERVICE</b> — Doctor, dentist, hospital, etc. (If dental laboratory, mark box 25.)</p> <p><input type="checkbox"/> <b>EDUCATIONAL SERVICE</b> (If a barber, beauty, or dancing school, mark box 25.)</p> <p><b>NONPROFIT MEMBERSHIP ORGANIZATION</b> (Nonprofit recreation clubs and performing arts organizations should mark box 59 and specify activity.)</p> <p><input type="checkbox"/> Trade association, board of trade, chamber of commerce</p> <p><input type="checkbox"/> Professional membership organization</p> <p><input type="checkbox"/> Labor union</p> <p><input type="checkbox"/> Civic, social, or fraternal association</p> <p><input type="checkbox"/> Political organization</p> <p><input type="checkbox"/> Religious organization</p> <p><input type="checkbox"/> Charitable organization</p> <p><b>MISCELLANEOUS SERVICES</b></p> <p><input type="checkbox"/> Accounting, auditing, bookkeeping (If a data processing service, mark box 25.)</p> <p><input type="checkbox"/> Writer, lecturer</p> <p><input type="checkbox"/> Government organization</p>
<p><b>OTHER BUSINESS</b></p> <p><input type="checkbox"/> All other — Specify activity _____</p>	
<p><b>Item 2 — MARK ONE</b></p> <p><input type="checkbox"/> If you have marked one or more boxes numbered 1–33 OR 59 — COMPLETE <b>Section B</b> on the reverse side.</p> <p><input type="checkbox"/> If only box(es) numbered 34–58 are marked — SKIP to <b>Section B, item 9, "Certification"</b> on the reverse side.</p>	



# APPENDIX C-Continued

FORM NC-X3 (10300)

Page 2

## Section B - OPERATIONS OF ESTABLISHMENT DURING 1972

<b>Item 1 - PHYSICAL LOCATION OF BUSINESS ESTABLISHMENT</b>											
<p>The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located (which may differ from the mailing address) so that data can be tabulated in the correct geographic area.</p> <p>a. Is this business establishment <b>PHYSICALLY</b> located at the address shown in the address box of this form?</p> <p><input type="checkbox"/> YES - Answer b and c      <input type="checkbox"/> NO - Enter PHYSICAL location Also answer b and c</p>		<p><b>PHYSICAL LOCATION</b></p> <p>If location cannot be described by street name and number, give as much information as possible such as name of shopping center, street intersection, highway number or distance from nearest town, etc.</p> <p>Street name and number</p> <p>Place (City or village, etc.)      State      ZIP code</p>									
<p>b. Is this business establishment located <b>WITHIN</b> the LEGAL boundaries of the city, village, etc., which you indicate is its <b>PHYSICAL</b> location?</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO</p>		<p>c. In what county is this business establishment <b>PHYSICALLY</b> located?</p> <p>County</p>									
<b>Item 2 - EMPLOYER IDENTIFICATION NUMBER</b>											
<p>a. Is the Employer Identification (E.I.) Number printed in the upper right of the address box the <b>SAME</b> as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941?</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO → Enter current E.I. number (9 digits)</p>		<p>b. Did this establishment also use any other Employer Identification (E.I.) Number during 1972?</p> <p><input type="checkbox"/> YES → Enter E.I. number or numbers (9 digits)      <input type="checkbox"/> NO</p>									
<b>Item 3 - PERIOD OPERATED IN 1972</b>											
<p>a. Was this establishment in business at the end of 1972?</p> <p>If establishment was inactive during December 1972 due to seasonal or part-time operations, answer "Yes" unless it was not owned by you at the end of the year.</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO</p>		<p>b. How many months during 1972 did you own this establishment?</p> <p>030      031</p>									
<p><i>Important - Please read</i></p> <p>Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below.</p> <p>EXAMPLE: If figure is \$1,125,628.28 →</p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">PREFERRED method . . . .</td> <td style="text-align: center;">1</td> <td style="text-align: center;">125</td> <td style="text-align: center;">628</td> </tr> <tr> <td style="text-align: center;">Acceptable method . . . . .</td> <td style="text-align: center;">1</td> <td style="text-align: center;">125</td> <td style="text-align: center;">628</td> </tr> </table>				PREFERRED method . . . .	1	125	628	Acceptable method . . . . .	1	125	628
PREFERRED method . . . .	1	125	628								
Acceptable method . . . . .	1	125	628								
<b>Item 4 - DOLLAR VOLUME OF BUSINESS IN 1972</b>											
<p>Include in line "a" all sales of merchandise (whether or not payment was received in 1972); all other receipts from customers for services, including repair, maintenance, delivery, and installation charges; and all receipts from carrying charges or other charges and credit.</p>		<p>a. Sales of merchandise and other receipts from customers, including sales and excise taxes collected</p> <p>040      Mil.      Thou.      Dol.</p>									
<p>b. Does the entry in "a" include sales taxes and excise taxes collected from customers?</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO</p>		<p>c. If "NO," how much (if any) did you forward to taxing agencies for such taxes?</p> <p>042      Mil.      Thou.      Dol.</p>									
<p>d. Of the amount in line "a," what percent was for products manufactured by you at this location?</p> <p>046      Percent      %</p>											
<b>Item 5 - PAYROLL AND EMPLOYMENT</b>											
<p>Lines a and b - Report the gross earnings paid to employees prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings all wages, salaries, commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind. If a corporation, include salaries of officers; if an unincorporated concern, exclude payments to proprietors or partners.</p> <p>Line c - Be sure to include all persons on paid sick leave, paid holidays, and paid vacation during the pay period indicated, as well as those actually working. If a corporation, include officers; if an unincorporated concern, exclude proprietors or partners.</p>		<p>a. Total ANNUAL payroll in 1972 before deductions</p> <p>060      Mil.      Thou.      Dol.</p> <p>b. Payroll for the FIRST QUARTER of 1972</p> <p>061      Mil.      Thou.      Dol.</p> <p>c. Number of paid employees for the pay period including March 12, 1972</p> <p>062      Number</p>									
<b>Item 6 - COMPANY ORGANIZATION</b>											
<p>a. Is the first digit of your Census File Number (imprinted in the address box) a zero (0)?</p> <p><input type="checkbox"/> YES - Answer b, c, and d      <input type="checkbox"/> NO - SKIP to Item 7</p>											
<p>b. Is this company owned or controlled by another company?</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO</p>		<p>Enter the company name and address (street name and number, city, State, ZIP code) and E.I. number. If more space is needed to list companies, attach a separate sheet providing same information required below.</p> <p>Owning or controlling company</p> <p>E.I. No. (9 digits)      -      -      -      -      -      -      -      -      -</p>									
<p>c. Does this company own or control any other company or companies?</p> <p><input type="checkbox"/> YES      <input type="checkbox"/> NO</p>		<p>Owning or controlled company</p> <p>E.I. No. (9 digits)      -      -      -      -      -      -      -      -      -</p>									
<b>d. YOUR BUSINESS LOCATIONS</b>											
<p>(1) At how many locations did you operate this business during 1972? (Include all selling or service locations and any other facilities such as warehouses, administrative offices, etc.) . . . . .</p> <p>Number of locations      If more than one location, complete (2) below.</p> <p>(2) List each location (including main location). If more space is needed, attach separate sheet providing same information required below.</p>											
Census use only	Physical address of business location (Street name and number, city, State, ZIP code) (a)	Census use only	Kind of business at this location (b)								
070	1.	071	072								
070	2.	071	072								
070	3.	071	072								
070	4.	071	072								
TOTAL (Totals should equal entries in items 4a and 5a and 5c) →											
<b>Item 7 - SOURCE OF SALES OR RECEIPTS</b>											
<p>List below the principal lines of merchandise sold, kinds of construction work done, products manufactured or mined, or services performed and indicate the approximate percentage each was of your total receipts (item 4a) in 1972.</p> <p>180</p>											
Lines of merchandise sold, types of construction activity, types of services, and products manufactured or mined			Percentage of total receipts shown in item 4a								
<b>Item 8 - SALES OR RECEIPTS BY CLASS OF CUSTOMER</b>											
<p>Report the approximate percentage of your total 1972 sales or receipts for each class of customer.</p>		<p>Report in whole percents</p> <p>a. General public (household consumers and individuals)      262      %</p> <p>b. Builders, contractors, applicators      263      %</p> <p>c. Other retailers      264      %</p> <p>d. Wholesale organizations      265      %</p> <p>e. Institutional, industrial, commercial, professional and farm users (for use in farm production) and government      266      %</p> <p>f. Other (Specify)      267      %</p>									
<b>Item 9 - CERTIFICATION</b>											
<p>Name of person to contact regarding this report</p> <p>This report is substantially accurate and covers the period from _____ to _____</p> <p>Signature of authorized person      Title      Date</p>		<p>Address (if different from label address)</p> <p>Telephone</p> <p>Area code      Number      Extension</p>									

\* Report number of paid employees for the pay period including March 12, 1972.

# APPENDIX C -Continued

PENALTY FOR FAILURE TO REPORT DUE DATE: February 15, 1973

Form Approved: O.M.B. No. 41-S71102

**NOTICE** - Reponse to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report, please refer to this Census File Number

MC-M6 (SIC 2842)

FORM MC-M6 (SIC 2842)

U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS  
ADMINISTRATION  
BUREAU OF THE CENSUS

**1972 CENSUS OF MANUFACTURES  
CLASSIFICATION REPORT**

**CHEMICALS, HOUSEHOLD**

Please complete  
this form and  
RETURN TO

BUREAU OF THE CENSUS  
1201 East Tenth Street  
Jeffersonville, Indiana 47130

**IMPORTANT - PLEASE READ**

Please complete this form and return it in the enclosed envelope as soon as you can, but not later than February 15, 1973.

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Please complete form on reverse

Mark the ONE box which best describes your principal activity in 1972.

217500 ☐ Manufacturing household insecticides and repellents

4-2

217700 ☐ Manufacturing polishes, specialty cleaning and sanitation goods, nonpersonal deodorants, etc., except household insecticides and repellents

☐ Other - Please specify whether business activity is manufacturing, mining, merchandising, or other services. List most important products produced, or sold, or services rendered.

CERTIFICATION	Name of person to contact	Address (Number, street, city, State, ZIP code)	
	Signature of authorized person	Title	Date

FORM MC-M6

# APPENDIX C—Continued

PENALTY FOR FAILURE TO REPORT		DUE DATE: FEBRUARY 15, 1973		Form Approved: O.M.B. No. 41-571021																																													
<b>Form NC-X6 (Rev.)</b> <small>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</small>		<b>1972 ECONOMIC CENSUSES</b> <b>CENTRAL ADMINISTRATIVE OFFICE OR</b> <b>AUXILIARY ESTABLISHMENT</b>																																															
<b>PLEASE COMPLETE THIS FORM AND RETURN TO</b>		<b>BUREAU OF THE CENSUS</b> 1201 East Tenth Street Jeffersonville, Indiana 47130		<b>NOTICE</b> — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.  In correspondence pertaining to this report please refer to this Census File Number <span style="float: right;">Employer Identification Number</span>																																													
<b>PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT</b> If calendar year records are not available, fiscal year reports for the periods ending between October 31, 1972 and February 28, 1973 are acceptable. If book figures are not available, carefully prepared estimates are acceptable. If filing by due date causes an undue burden, a request for an extension of time should be sent to the above address. Please mention the 11-digit Census File Number in the upper left of the address box if you write regarding this report. This report should cover ONLY the establishment identified in the address box. <div style="text-align: right; font-size: small;">(Please correct any error in name and address including ZIP code)</div>																																																	
<b>ITEM 1 NAME AND PHYSICAL LOCATION OF ESTABLISHMENT</b> The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located (which may differ from the mailing address) so that the data can be tabulated in the correct geographic area.																																																	
<b>a. Name of this establishment, IF DIFFERENT from that appearing in the address box.</b> <span style="float: right;">Name</span>																																																	
<b>b. Is your business establishment PHYSICALLY located at the address shown in the address box of this form?</b> <div style="display: flex; justify-content: space-between;"> <span><input type="checkbox"/> YES — Proceed to c and d</span> <span><input type="checkbox"/> NO — Enter PHYSICAL location Also answer c and d</span> </div>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>c. Is this business establishment located WITHIN the LEGAL boundaries of the city, village, etc., which you indicate in its PHYSICAL location?</b>  <input type="checkbox"/> Yes <input type="checkbox"/> No         </div> <div style="width: 45%;"> <b>d. In what county is your business establishment PHYSICALLY located?</b> <span style="float: right;">County</span> </div> </div>																																																	
<b>ITEM 2 EMPLOYER IDENTIFICATION NUMBER</b>																																																	
<b>a. Is the Employer Identification (EI) Number printed in the address box the SAME as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No — If "No," enter the currently assigned EI number here <span style="float: right;">(9 digits)</span>																																																	
<b>b. Did this establishment also use any other Employer Identification (EI) Number during 1972?</b> <input type="checkbox"/> Yes — If "Yes," enter EI number(s) <span style="float: right;">(9 digits)</span> <input type="checkbox"/> No																																																	
<b>ITEM 3 LEGAL FORM OF ORGANIZATION OF COMPANY OPERATING THIS ESTABLISHMENT (MARK ONE)</b>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> 1 Individual proprietor  <input type="checkbox"/> 2 Partnership  <input type="checkbox"/> 3 Corporation (Do NOT mark if any form of cooperative association)         </div> <div style="width: 45%;"> <input type="checkbox"/> 4 Co-op (cooperative association), corporate or noncorporate  <input type="checkbox"/> 5 Other — Specify <span style="float: right;">x</span> </div> </div>																																																	
<b>ITEM 4 PRINCIPAL ACTIVITY OF THIS ESTABLISHMENT IN 1972</b> Mark the ONE item that BEST describes the PRINCIPAL activity of this establishment. If none applies, mark item (j) and enter a description of your principal activity. MARK ONE ITEM ONLY.																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> 1 a. Centralized administration (i.e., supervisory functions of a central, home, general, branch, divisional or district office)  <input type="checkbox"/> 1 b. Management and other supporting services (e.g., purchasing or buying office, accounting office, legal office, public relations office, etc.)         </div> <div style="width: 45%;"> <input type="checkbox"/> 3 c. Warehousing  <input type="checkbox"/> 7 d. Chainstore warehousing (i.e., a combination of administrative and warehousing activities described in a, b, and c)  <input type="checkbox"/> 2 e. Research, development, and testing         </div> </div>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> 4 f. Trading stamp redemption  <input type="checkbox"/> 8 g. Selling  <input type="checkbox"/> 9 h. Repair service  <input type="checkbox"/> 6 i. Electronic data processing  <input type="checkbox"/> 9 j. Other         </div> </div>																																																	
<b>ITEM 5 PRINCIPAL ACTIVITIES OF YOUR COMPANY SERVICED BY THIS ESTABLISHMENT IN 1972</b>																																																	
<b>a. Does this establishment perform the above described management, general administrative functions, or other supporting services primarily for establishments of your company (rather than for other business firms or for the general public)?</b> <input type="checkbox"/> 012 1 Yes — Complete items 5b, c, and d <input type="checkbox"/> 2 No — Skip to item 6																																																	
<b>b. Does this establishment perform these management and administrative functions or services for all establishments of your company? ("Your company" refers to the parent firm and all its subsidiaries under common ownership or control.)</b> <input type="checkbox"/> 013 1 Yes <input type="checkbox"/> 2 No																																																	
<b>c. Mark the principal kind of business or industrial activity of the establishments of your company that are managed or serviced by this central office or auxiliary.</b>																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> 1 Minerals extraction, quarrying, production, or exploration  <input type="checkbox"/> 2 Manufacturing (fabricating, assembling, or processing materials into new products; also includes publishing and printing)         </div> <div style="width: 45%;"> <input type="checkbox"/> 3 Construction (including general contracting, subcontracting, home building, and land subdividing and developing)  <input type="checkbox"/> 4 Manufacturer sales branches or other wholesale operations  <input type="checkbox"/> 5 Retail stores  <input type="checkbox"/> 6 Other — Describe         </div> </div>																																																	
<b>d. List in order of importance, the principal products made, kinds of retail or wholesale business operated, types of services rendered, or construction activities performed by the establishments that are managed or serviced by this central office or auxiliary.</b> (1) _____ (3) _____ (2) _____ (4) _____																																																	
<b>IMPORTANT</b> — Figures for dollars should be reported in thousands. If you wish you may report to the nearest dollar. In either case, please be careful to enter your figures in the correct columns.																																																	
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>EXAMPLE:</b> If payroll is \$1,125,628            PREFERRED method . . . 1 125 628            Acceptable method . . . 1 125 628         </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th style="font-size: small;">Mil- lions 000</th> <th style="font-size: small;">Thou- sands 000</th> <th style="font-size: small;">Dol- lars 000</th> </tr> </thead> <tbody> <tr> <td>Key</td> <td>Mil.</td> <td>Thou.</td> <td>Dol.</td> </tr> <tr> <td>050</td> <td></td> <td></td> <td></td> </tr> <tr> <td>051</td> <td></td> <td></td> <td></td> </tr> <tr> <td>052</td> <td></td> <td></td> <td></td> </tr> <tr> <td>053</td> <td></td> <td></td> <td></td> </tr> <tr> <td>054</td> <td></td> <td></td> <td></td> </tr> <tr> <td>055</td> <td></td> <td></td> <td></td> </tr> <tr> <td>056</td> <td></td> <td></td> <td></td> </tr> <tr> <td>057</td> <td></td> <td></td> <td></td> </tr> <tr> <td>058</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> </div>							Mil- lions 000	Thou- sands 000	Dol- lars 000	Key	Mil.	Thou.	Dol.	050				051				052				053				054				055				056				057				058			
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<b>ITEM 6 PAYROLL AND EMPLOYMENT AT THIS ESTABLISHMENT DURING 1972</b>																																																	
<b>a. Payroll</b> — Report the payroll of persons employed at this establishment, including its traveling personnel. Do not include the payroll of employees working in or from other establishments of your company, however, even though paid from this location. (The number and payroll of such employees should be included in the 1972 Census reports for the establishments at which they were actually employed.)																																																	
<b>b. Employment by function</b> — Report the number of employees employed at this establishment according to the principal functions performed during the pay period including March 12, 1972.																																																	
Where records do not provide actual employee counts in terms of the functions listed, estimates of the approximate number in each are acceptable. Those persons performing a variety of functions should be reported in their primary activity during that pay period, or allocated on some other reasonable and consistent basis (e.g., by converting the total number of man-hours or man-days expended during the pay period into the average number of employees in each activity).																																																	
<b>a. Payroll during 1972.</b> (Enter the total wages, salaries, bonuses, commissions, and other remuneration paid to employees of this establishment during 1972, before payroll deductions) <span style="float: right;">Key</span>																																																	
<b>b. Employment by function for pay period including March 12, 1972</b> <span style="float: right;">Key</span>																																																	
(1) Centralized administration (e.g., various management functions of a general, home, or district office) <span style="float: right;">051</span>																																																	
(2) Research, development, and testing <span style="float: right;">052</span>																																																	
(3) Warehousing <span style="float: right;">053</span>																																																	
(4) Sales to customers directly from this location <span style="float: right;">054</span>																																																	
(5) Trading stamp redemption <span style="float: right;">055</span>																																																	
(6) Electronic data processing <span style="float: right;">056</span>																																																	
(7) Other — Specify <span style="float: right;">057</span>																																																	
(8) TOTAL NUMBER OF EMPLOYEES (Sum of lines 1 through 7) <span style="float: right;">058</span>																																																	
<b>c. Were the employees and payroll reported above also reported in any other 1972 Census establishment report form of your company i.e., in the Census Forms MA-, MC-, CB-, or CC- series?</b> <input type="checkbox"/> Yes — If "Yes," please give the 11-digit CENSUS FILE NUMBER of that report <span style="float: right;">059</span> <input type="checkbox"/> No																																																	

Please continue on page 2



# APPENDIX C—Continued

FORM NC-X6 (Rev.)

Page 2

ITEM 7 SALES MADE BY THIS ESTABLISHMENT DURING 1972 TO CUSTOMERS OUTSIDE YOUR COMPANY		Key	Mil.	Thou.	Dols.												
<p>a. Report all sales made by this establishment during 1972 (merchandise sales, receipts for services, and other business receipts) to customers outside your company. Include excise taxes and sales taxes paid directly to taxing agencies. Exclude intracompany transfers to other domestic establishments of your company; however, include export transfers to your foreign subsidiaries. Exclude sales to outside customers made by OTHER establishments of your company, even though billed centrally by this establishment. (Report such sales on the 1972 Census forms of these other establishments.)</p> <p>b. List principal products sold or services rendered by this establishment to customers outside your company, and their approximate percent of 1972 sales and receipts, as reported in item 7a above.</p> <table border="1"> <thead> <tr> <th>Principal products sold or services rendered</th> <th>Percent of sales and receipts in 1972</th> <th>Principal products sold or services rendered</th> <th>Percent of sales and receipts in 1972</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>%</td> <td>(3)</td> <td>%</td> </tr> <tr> <td>(2)</td> <td>%</td> <td>(4)</td> <td>%</td> </tr> </tbody> </table>		Principal products sold or services rendered	Percent of sales and receipts in 1972	Principal products sold or services rendered	Percent of sales and receipts in 1972	(1)	%	(3)	%	(2)	%	(4)	%	060			
Principal products sold or services rendered	Percent of sales and receipts in 1972	Principal products sold or services rendered	Percent of sales and receipts in 1972														
(1)	%	(3)	%														
(2)	%	(4)	%														
<p>ITEM 8 BILLINGS BY THIS ESTABLISHMENT IN 1972 TO RETAIL STORES OF YOUR COMPANY</p> <p>Report at cost value all merchandise billed by this establishment in 1972 to retail stores of your company. Include all billings, whether or not the merchandise was shipped directly by the supplier to your retail stores or shipped from this establishment. Exclude purchases made directly by your individual stores. Exclude billings to establishments other than your retail stores. Exclude sales to retail stores of other companies, and franchise sales (which should be reported in item 7a above.)</p>		<p>Total billings by this establishment in 1972 to retail stores of your company</p> <p>065</p>															
<p>ITEM 9 INVENTORIES AT BEGINNING AND END OF 1972</p> <p>Report all inventories of this establishment at current cost (if feasible), rather than sales price. Exclude inventories reported by other establishments of your company on their 1972 Census establishment forms.</p>		<p>Value of inventories of this establishment:</p> <p>a. BEGINNING of 1972 066</p> <p>b. END of 1972 069</p>															
<p>ITEM 10 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1972 (EXCLUDE LAND AND MINERAL RIGHTS)</p> <p>Report all capital expenditures actually made during 1972 for this establishment, including major alterations, capitalized repairs and improvements. "Capital expenditures" refer to all costs that are chargeable to property accounts for which depreciation or amortization accounts are ordinarily maintained. Include the cost of all improvements and new construction at this establishment which were in progress but had not been completed at the end of 1972. Include expenditures made by your company (or any of its subsidiaries) for structures which, upon completion, were or are to be sold and leased back to this establishment. Include transfers of used plant and equipment to your establishment from other establishments of your company. Exclude the cost of land and mineral rights. Exclude the cost of maintenance and repairs charged as current operating expense. Exclude capital expenditures made by outside owners of property rented or leased to this establishment. Exclude capital expenditures made by this establishment for other locations of your company.</p>		<p>Type of capital expenditures:</p> <p>a. New structures and additions to plant 070</p> <p>b. New machinery and new equipment 071</p> <p>c. Used plant and used equipment acquired from others (including transfers from other establishments of your company) 072</p> <p>d. TOTAL CAPITAL EXPENDITURES DURING 1972 (Sum of lines a, b, and c) 074</p>															
<p>ITEM 11 CHANGES IN GROSS VALUE OF DEPRECIABLE ASSETS OF THIS ESTABLISHMENT DURING 1972</p> <p>Report the changes in gross value of depreciable assets of this establishment for which depreciation or amortization accounts are ordinarily maintained. "Gross value" represents the acquisition cost (original cost or other basis) to your company of such depreciable assets. Include all depreciable assets (buildings, structures, machinery, equipment, etc.) and all amortizable fixed assets. Include all improvements and new construction "in progress" during 1972 but not yet completed at the end of 1972. Also include the value of depreciable assets owned by this establishment but leased or rented to other companies. Include the value of depreciable assets owned by your company or any of its subsidiaries but "leased" to this establishment. Exclude the value of depreciable assets at other locations of your company (or any of its subsidiaries) for which this establishment maintains records.</p>		<p>a. Gross value of depreciable assets at BEGINNING of 1972 075</p> <p>b. Total capital expenditures during 1972 (Copy figure from item 10d) 076</p> <p>c. Gross value of depreciable assets sold, retired, transferred, scrapped or destroyed during 1972 078</p> <p>d. Gross value of depreciable assets, at END of 1972 (Should equal lines a + b - c. If not, please comment in "Remarks.") 079</p>															
<p>ITEM 12 RENTAL PAYMENTS MADE FOR THIS ESTABLISHMENT DURING 1972 (EXCLUDE LAND)</p> <p>Report all rental payments made or accrued during 1972 to OUTSIDE firms which own the plant and equipment rented or leased by this establishment. Exclude rental payments made by this establishment to your parent company or any of its subsidiaries. (The gross value of such company-owned assets should be reported in item 11, however, as if actually owned by this establishment.) Exclude rental payments made by this establishment for plant and equipment located at other establishments of your company. In reporting rents paid (or equivalent charges) for use of "Buildings and structures," exclude separately identified fees for leasing of land (such as ground rents). Under "Machinery and equipment," be sure to include rental payments, (or equivalent charges), for use of transportation equipment, office equipment, computer systems, passenger cars, and all other types of machinery or equipment.</p>		<p>Rental payments made for this establishment:</p> <p>a. For use of BUILDINGS AND STRUCTURES (excluding land) 085</p> <p>b. For use of MACHINERY AND EQUIPMENT 086</p> <p>c. TOTAL RENTAL PAYMENTS (Sum of lines a and b) 087</p>															
<p>ITEM 13 COST OF RESEARCH AND DEVELOPMENT PERFORMED AT THIS ESTABLISHMENT DURING 1972</p> <p>"Cost" should include all costs incurred at this establishment during 1972 to support research and development activities (i.e. wages and salaries; direct materials costs; services and supporting costs; and an appropriate share of depreciation and overhead). If this establishment performed research and development for the Federal government or for other companies on contract during 1972, include the total amount charged for such work performed. (Also, report such receipts in item 7 above.) If this establishment performed research and development for your own company or its subsidiaries, include the total amount of company funds provided for such work performed.</p>		<p>Type research and development performed:</p> <p>a. Federal contracts and subcontracts 095</p> <p>b. Research and development performed with other (non-Federal) funds from outside your company 096</p> <p>c. Research and development performed with funds from within your company 097</p> <p>d. TOTAL COST OF RESEARCH AND DEVELOPMENT DURING 1972 (Sum of lines a, b, and c) 098</p>															
<p>ITEM 14 WAREHOUSE STORAGE SPACE, AS OF DECEMBER 31, 1972</p> <p>If you reported any employees in item 6b, line (3) "Warehousing," complete this item. Exclude floor space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.</p>		<p>Occupiable floor space (under roof) — occupied and unoccupied — of this establishment</p> <p>099</p> <p>Square feet</p>															
Remarks																	
ITEM 15		Name and address (including ZIP code) of person to contact regarding this report		Telephone													
				Area code Number Extension													
CERTIFICATION																	
This report is substantially accurate and covers the period from _____ to _____																	
Signature of authorized person		Title		Date													

# APPENDIX C—Continued

PENALTY FOR FAILURE TO REPORT

DUE DATE FEBRUARY 15, 1973

O.M.B. No. 41-S-1047; Approval Expires December 31, 1974

<p><b>Form NC-K1</b> (1972)</p> <p style="text-align: center; font-size: small;">U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p> <p style="text-align: center; font-size: large; font-weight: bold;">1972 ECONOMIC CENSUSES COMPANY SUMMARY REPORT</p> <p style="text-align: center; font-weight: bold;">PLEASE COMPLETE THIS FORM AND RETURN TO</p> <p style="text-align: center; font-size: small;">BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47130</p> <p style="font-size: x-small;">If filing by due date causes an undue burden, a request for an extension of time should be sent to the above address.</p>	<p><b>NOTICE</b>—Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>In correspondence pertaining to this report please refer to <b>CENSUS FILE NO.</b></p> <p>Name and address—Please correct errors in name, address and ZIP code. ENTER street and number if not shown.</p>
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## PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

This form will provide you and the Bureau of the Census with a systematic means for assuring that all domestic activities of your company and its subsidiaries have been accounted for in the 1972 Censuses of Business (i.e., Retail Trade, Wholesale Trade, Selected Services), Construction, Manufactures, and Mineral Industries. For the purposes of this report, "domestic" activities should include all 50 States and the District of Columbia. It should not include activities of your firm in foreign countries. (Note—Your Puerto Rico activities, if any, should be included in items 2 and 3 below but excluded from items 4 through 11 on page 2 of this report.)

Please complete Form NC-K1, "Company Summary Report," after you have prepared all required 1972 Census establishment reports for your company and its subsidiaries, but before you return these completed reports to the Bureau of the Census. Preparing this Company Summary Report prior to returning the completed establishment reports may help you to discover more readily and to correct promptly any omission or duplication of reports for those establishments which should be covered in the 1972 Economic Censuses. In turn, this will speed up the Census Bureau's processing of your company report forms and will minimize any correspondence regarding coverage.

### ITEM 1 GENERAL INFORMATION

<p><b>a. Name of company</b></p> <p>_____</p> <p><b>b. Company organization</b></p> <p>Is the above-named company owned or controlled by another company? (If "Yes," please give employer identification number, company name, and address of controlling company.)</p> <p><input type="checkbox"/> Yes      Employer Identification Number (9 digits)      _____</p> <p><input type="checkbox"/> No      Company name      _____</p> <p>Street name and address      _____</p> <p>City      State      ZIP code</p>	<p><b>c. Legal form of organization of company—Mark one</b></p> <p><input type="checkbox"/> 1 Individual proprietor</p> <p><input type="checkbox"/> 2 Partnership</p> <p><input type="checkbox"/> 3 Corporation (Do not mark if any form of cooperative association.)</p> <p><input type="checkbox"/> 4 Co-op (Cooperative association), corporate or noncorporate</p> <p><input type="checkbox"/> 5 Other—Specify _____</p>
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### ITEM 2 EMPLOYMENT SUMMARY OF YOUR COMPANY AND ITS SUBSIDIARIES DURING 1972

Column (a) lists the Employer Identification (E.I.) Numbers assigned to your company, based on information you reported on the 1972 Census Form NC-X1 (A, B, or C), "Report of Company Organization." Column (b) lists the number of paid employees for the pay period including March 12, 1972, also as reported on Census Form NC-X1 (A, B, or C). Please update this list to correct any errors and to add to column (a) any E.I. numbers covering domestic activities which are not listed, but which were used by your company or any of its domestic subsidiaries at any time during 1972. Then, complete columns (b) through (h) for each E.I. number—either prelisted or added by you. (Use item 2 Continuation sheet if necessary.)

**NOTE: All employment figures (columns b through d) are for the pay period including MARCH 12, 1972**

Line number	Employer Identification Number(s) used by your company during 1972 (a)	Number of employees as previously reported on Census Form NC-X1 (A, B, or C) (b)	Employees in domestic establishments as reported on your 1972 Census forms for the pay period including March 12, 1972 (c)	Employees in domestic establishments not reported on your Census forms (d)	Description of these activities not reported on your Census forms (e)	Total payroll for the year 1972 for these activities not reported on your Census forms (THOUSANDS OF DOLLARS) (f)	Is this E.I. number used to report Federal employment taxes? (MARK X)		FOR CENSUS USE ONLY
							YES (g)	NO (h)	
1									
2									
3									
4									
5									
6									
7									
8									
9	Subtotal from item 2 Continuation sheet, if any								
10	TOTAL All Employer Identification Numbers								

### ITEM 3 COVERAGE CHECK OF COMPANY EMPLOYMENT TOTALS

<p><b>a. Comparison of COMPANY employment with ESTABLISHMENT employment for the pay period including March 12, 1972.</b></p> <p>Enter employment totals from item 2, line 10:</p> <p>(1) From column (c), total      _____</p> <p>(2) From column (d), total      _____</p> <p>(3) Sum of figures above      _____</p> <p>(4) Sum of company employment for pay period including March 12, 1972. (From column (b), total)      _____</p>	<p><b>b. If the two figures in lines (3) and (4) of item 3a differ by more than 5 percent, please verify the reported figures in item 2. (For each Employer Identification Number, compare the column (b) figure with the sum of columns (c) and (d). These totals should ordinarily be equal for each E.I. number, if all employment has been accounted for.)</b></p> <p>If, after such verification, a company-wide difference in excess of 5 percent still exists, please explain:</p> <p>_____</p>
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Please continue on page 2



# APPENDIX C-Continued

FORM NC-K1

Page 2

## INSTRUCTIONS FOR SELECTED COMPANY STATISTICS FOR 1972 (ITEMS 4 - 11)

Please report the following items on a consolidated basis for the DOMESTIC ACTIVITIES of your company and ALL its subsidiaries. Do not include foreign activities, if any, (except for reporting foreign assets in item 11). Consolidate all domestic activities, whether or not covered in the 1972 Census by individual report forms. If calendar year records are not available, fiscal year reports for the periods ending between October 31, 1972 and February 28, 1973 are acceptable. If book records are not available, enter your best estimates. Before completing these items, please read the detailed instructions.

**IMPORTANT** - Figures for dollars should be reported in thousands. If you wish you may report to the nearest dollar. In either case, please be careful to enter your figures in the correct column.

EXAMPLE: If payroll is \$1,125,628

	Mil- lions (000)	Thou- sands (000)	Dol- lars (000)
PREFERRED method . . .	\$ 1	126	
Acceptable method . . . .	\$ 1	125	628

ITEM	DESCRIPTION	Key	Mil.	Thou.	Dol.
ITEM 4	<b>COMPANY PAYROLL DURING 1972</b> Report total wages, salaries, bonuses, commissions, and other remuneration paid by your company and its subsidiaries at domestic establishments and facilities during 1972 before payroll deductions.	Total company payroll during 1972	050	\$	
ITEM 5	<b>COMPANY SALES AND RECEIPTS DURING 1972</b> Report consolidated net sales and business receipts of your company and its subsidiaries during 1972. Exclude domestic intra-company transfers; exclude sales BY foreign subsidiaries; exclude non-operating income. Include sales to customers OUTSIDE your company; include excise taxes and sales taxes paid by your company directly to Federal, State, or local taxing agencies; include export transfers TO your foreign subsidiaries.	a. Net company sales and business receipts during 1972 b. Does the entry in 5a above include excise and sales taxes paid directly to taxing agencies? . . . . . c. If "No," report here the amount of such taxes paid by your company and its subsidiaries during 1972	060 081 062		
ITEM 6	<b>CAPITAL EXPENDITURES DURING 1972 (EXCLUDE LAND AND MINERAL RIGHTS)</b> Report all capital expenditures actually made during 1972 by your company and its subsidiaries for all domestic establishments and facilities. "Capital expenditures" refer to all costs that are chargeable to fixed assets accounts of your company for which depreciation or amortization accounts are ordinarily maintained; include major alterations, capitalized repairs and improvements; include expenditures made in 1972 for establishments under construction but not yet in operation. Exclude capital expenditures made by owners of property rented or leased by your firm and its subsidiaries; but include expenditures made by your firm and its subsidiaries for structures which, on completion, were or are to be sold and leased back by your firm. Exclude cost of land, mineral rights, and cost of maintenance and repair charged as current and operating expenses; exclude capital expenditures by subsidiaries in foreign countries.	Type of capital expenditures a. New structure and new additions to plant b. New machinery and new equipment c. Used plant, machinery, and equipment acquired from others d. Capitalized development and exploration of mineral properties e. TOTAL CAPITAL EXPENDITURES DURING 1972 (Sum of lines a, b, c, and d)	070 071 072 073 074		
ITEM 7	<b>CHANGES IN DEPRECIABLE ASSETS DURING 1972</b> Report the value of depreciable assets of your company and its subsidiaries for which depreciation or amortization accounts are ordinarily maintained. "Gross value" represents the acquisition cost (original cost or other basis) to your company of such fixed depreciable assets. Include depreciable assets for all domestic establishments and facilities. Exclude depreciable assets of your company and its subsidiaries in foreign countries. These assets should be reported in item 11c below. Include all depreciable assets (buildings, structures, equipment, etc.) and amortizable fixed assets. Exclude depletable assets (land, timber, and mineral rights) and non-fixed assets (inventories, cash, accounts receivable, etc.) These assets should be reported in item 11b below. Include in the value of assets all improvements and new construction that were "in-progress" but not yet completed at the end of 1972. Also include the value of depreciable assets (machinery, equipment, buildings, structures, computer equipment, etc.) owned by your company and its subsidiaries, but leased or rented to other companies.	a. Gross value (original cost or other basis) of depreciable assets owned by your company, as of BEGINNING of 1972 b. Total capital expenditures DURING 1972 (Copy figure from item 6e.) c. Other acquisitions by your company (by merger, exchange of stock, etc.) of depreciable assets DURING 1972 (if not included in line b above) d. Deductions from depreciable assets DURING 1972 (i.e., gross value of assets sold, retired, scrapped, or destroyed; and other adjustments) e. Gross value (original cost or other basis) of depreciable assets owned by your company, as of END of 1972 (Lines a + b + c - d)	075 076 077 078 079		
ITEM 8	<b>CHANGES IN DEPRECIATION RESERVES DURING 1972</b> In line a include total depreciation reserves as of the beginning of 1972 for the assets included in item 7, line a. In line b include additions made to depreciation reserves during 1972 for assets owned at the beginning of the year or acquired during the year. Exclude depletion reserves and reserves for intangible assets. Exclude depreciation of assets held in foreign countries. Such assets should be reported in item 11c below.	a. Accumulated depreciation as of BEGINNING of 1972 b. Depreciation charges against assets DURING 1972, (including charges against those acquired or completed during the year) c. Additions charged to other accounts DURING 1972 d. Deductions from reserves for retirements, renewals, and replacements during 1972 e. Accumulated depreciation as of END of 1972 (Lines a + b + c - d)	080 081 082 083 084		
ITEM 9	<b>RENTAL PAYMENTS MADE DURING 1972 (EXCLUDE LAND)</b> Report all rental payments made or accrued during 1972 to other firms which own the plant and equipment rented or leased by your company and its subsidiaries. In reporting rents paid (or equivalent charges) for use of "Buildings and structures," exclude separately identified fees for leasing of land (such as ground rents). Under "Machinery and equipment," be sure to include rental payments (or equivalent charges) for use of production machinery, office equipment, computer systems, passenger cars, trucks, materials handling equipment, and all other types of machinery or equipment.	Rental payments made by your company a. For use of BUILDINGS AND STRUCTURES (excluding land) b. For use of MACHINERY AND EQUIPMENT (including furniture and fixtures) c. TOTAL RENTAL PAYMENTS DURING 1972 (Sum of lines a and b)	085 086 087		
ITEM 10	<b>INVENTORIES, AS OF BEGINNING AND END OF 1972</b> Report all inventories of your company and its subsidiaries at the beginning and end of 1972 on a comparable basis. Inventories should include: finished products; work-in-process; and materials, supplies, fuel, etc. Exclude inventories of subsidiaries in foreign countries. In aggregating the inventories of your company and its subsidiaries, report value on a current cost basis, if feasible, otherwise at book value.	Value of inventories: a. All inventories, as of BEGINNING of 1972 b. All inventories, as of END of 1972	088 089		
ITEM 11	<b>TOTAL COMPANY ASSETS, AS OF END OF 1972</b> Report the balance sheet assets of your company and its subsidiaries on a consolidated basis. Lines a and b should include only domestic assets of your company and its subsidiaries. Line c should include all assets of your company and its subsidiaries in foreign countries, regardless of type. Report all foreign assets on a NET basis. (Line c)	Type of company assets: a. Net value of depreciable assets (Should equal line 7e less 8e) b. All other domestic assets (i.e., inventories, cash, accounts receivable, land, etc.) c. Net foreign assets (i.e., assets located in foreign countries) d. TOTAL COMPANY ASSETS, AS OF END OF 1972 (Sum of lines a, b, and c)	090 091 092 093		
Remarks					
ITEM 12	Name and address (including ZIP code) of person to contact regarding this report		Telephone Area code Number Ext.		
CERTIFICATION	This report is substantially accurate and covers the period from _____ to _____ Signature of authorized person Title Date				



# APPENDIX C -Continued

PENALTY FOR FAILURE TO REPORT

DUPLICATE DATE: FEBRUARY 15, 1973

Form Approved: O.M.B. No. 41-571102

**FORM MC-368**  
(3602)

U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS ADMIN.  
BUREAU OF THE CENSUS

**1972 CENSUS OF MANUFACTURES  
SWITCHGEAR AND SWITCHBOARD APPARATUS  
AND INDUSTRIAL CONTROL**

Please complete and return  
this form as soon as possible  
after receipt to:

**BUREAU OF THE CENSUS**  
1201 East Tenth Street  
Jeffersonville, Indiana 47130

**PLEASE READ ACCOMPANYING INSTRUCTION SHEET AND  
INSTRUCTIONS WITH EACH ITEM BEFORE COMPLETING**

If hook figures are not available, carefully prepared estimates are  
acceptable. Complete every item. Please enter the 11-digit number in the  
Census File Number space provided at the top of all odd-numbered pages.

If filing by due date causes an undue burden, a request of an extension of  
time should be sent to the above address. Please mention the 11-digit  
Census File Number in the upper left of the address box if you write  
regarding this report.

**NOTICE** - Response to this inquiry is required by law (Title 13, U.S. Code). By the  
same law, your report to the Census Bureau is confidential. It may be seen only by  
sworn Census employees and may be used only for statistical purposes. The law  
also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report,  
please refer to this Census File Number

Employer Identification  
Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

**ITEM 1A PHYSICAL LOCATION OF MANUFACTURING ESTABLISHMENT**

The purpose of this inquiry is to determine the place (city, county, etc.) where  
your plant is actually located (which may differ from the mailing address) so  
that the data can be tabulated in the correct geographic area.

a. Is your manufacturing establishment physically located at the address  
shown in the address box in the right hand corner of this form?

☐ NO - Enter PHYSICAL location here

Also  
answer  
b and c

Street name and number

Place (City or village, etc.)

State

ZIP code

☐ YES

Answer  
b and c

"If location cannot be described by street name and number,  
give as much information as possible such as street inter-  
section, highway number or distance from nearest town, etc."

b. Is your manufacturing establishment  
located WITHIN the LEGAL boundaries  
of the city, village, etc., which you  
indicate in its PHYSICAL location?

☐ YES ☐ NO

c. In what county is your manufacturing  
establishment PHYSICALLY located?

County

**ITEM 8 EMPLOYER IDENTIFICATION NUMBER(S)**

a. Is the Employer Identification (E.I.) Number in the upper right of the  
address box the SAME as that used for this establishment on your latest  
1972 Employer's Quarterly Federal Tax Return, Treasury Form 941?

(9 digits)

☐ YES ☐ NO - Enter currently  
assigned E.I. number

b. Did this establishment also use any other Employer Identification  
(E.I.) Number(s) during 1972?

(9 digits)

☐ YES - Enter E.I. number  
or numbers ☐ NO

**IMPORTANT** - Dollar and man-hour figures should be reported  
in thousands. If you wish, you may report to the nearest unit.  
Please be careful to enter your figures in the correct columns.

EXAMPLE - If the payroll is \$1,125,628:

● PREFERRED METHOD

Acceptable method

Mil- lions \$000	Thou- sands \$000	Dol- lars \$000
1	126	
1	125	628

Complete each item, enter "0" when appropriate

**ITEM 2**

Number of employees

Number of production workers during pay period including 12th of month

a. March

b. May

c. August

d. November

e. Sum of lines a-d

f. Average number (divide line e by 4, omit fractions)

g. All other employees (pay period including March 12th)

h. TOTAL EMPLOYMENT (Sum of lines f and g, Item 2)

**ITEM 3A Payrolls**

a. Production workers' wages

b. All other salaries and wages

c. TOTAL PAYROLL (Item 3A)

**ITEM 3B** Not applicable to this form.

Complete each item, enter "0" when appropriate

**ITEM 4**

Plant man-hours of production workers by quarter

a. January through March

b. April through June

c. July through September

d. October through December

e. TOTAL MAN HOURS (Item 4)

**ITEM 5**

Cost of materials, parts, resales, fuels, electricity, and contract work

a. Cost of materials, parts, components, containers, etc., consumed

b. Cost of products bought and resold

c. Cost of fuels consumed

d. Cost of purchased electricity

e. Cost of contract work done for you by others on your materials

f. TOTAL COST (Item 5)

(Delivered cost including freight and other direct charges)

**ITEM 6**

Inventories of this establishment

(Valuation should be on a comparable basis for both periods)

a. Finished products

b. Work-in-process

c. Materials, supplies, fuels, etc.

d. TOTAL INVENTORIES (Item 6)

JANUARY 1, 1972

DECEMBER 31, 1972

**ITEM 7**

Capital expenditures during year (exclude land)

(See instructions for details)

a. New structures and new additions to this plant (Exclude land)

b. New machinery and new equipment

c. Used plant and used equipment acquired from others

d. TOTAL CAPITAL EXPENDITURES (Item 7)

**ITEM 8**

**ITEM 9**

**ITEM 10**

**ITEM 11**

**ITEM 12**

Not applicable to this form

Please continue on page 2

# APPENDIX C—Continued

Form MC-36B

Page 2

<b>Changes in operator or operations during 1972</b>	<b>112 MARK ONE BOX</b>			
	1 <input type="checkbox"/> No change in operator or operations		4 <input type="checkbox"/> Plant dismantled, abandoned, or destroyed on — Date _____	
	2 <input type="checkbox"/> Reorganized — Describe in "Remarks," e.g., partnership change or change in corporate status.		5 <input type="checkbox"/> Plant idle or inactive but still owned — Date _____	
	3 <input type="checkbox"/> Started new business — Date _____			
6 <input type="checkbox"/> This establishment was purchased or leased from another company — Complete the following information —>				
Name of former operator or owner		Address (Number, street, city, State, ZIP code)		EI Number (9 digits) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> Date <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>
7 <input type="checkbox"/> This establishment was sold or leased to another company — Complete the following information —>				
Name of new operator or owner		Address (Number, street, city, State, ZIP code)		EI Number (9 digits) <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> Date <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>
<b>NOTE</b> Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? ..... <input type="checkbox"/> YES — Complete item 14A, a through d <input type="checkbox"/> NO — Skip to item 15 below				
<b>Company affiliation and organization</b>	113 a. Is this company owned or controlled by another company? ... <input type="checkbox"/> YES — Complete the following information —> 2 <input type="checkbox"/> NO			
	Name, address, and Employer Identification Number of owning or controlling company		Activity of owning or controlling company (Describe, e.g., manufacturing, retail, wholesale, etc.; and chief products sold)	
	Employer Identification No. <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>			
114 b. Does this company own or control any other companies? ..... <input type="checkbox"/> YES } If "YES," complete 14B below 2 <input type="checkbox"/> NO				
c. Does this company operate more than one establishment? ..... <input type="checkbox"/> YES } 2 <input type="checkbox"/> NO				
d. Did this company have any manufacturing plants under construction but not in operation at the end of the year? <input type="checkbox"/> YES 2 <input type="checkbox"/> NO				
<b>Other companies owned or establishments operated</b> (Complete only if item 14A b or c is marked "YES.")	Name, address, and Employer Identification Number		Activity (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold)	1972 payroll and sales (\$000) Payroll \$ <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> Sales \$ <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> Payroll \$ <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> Sales \$ <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>
	Employer Identification No. <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>			Are payroll and sales included on page 1 of this report? YES <input type="checkbox"/> NO <input type="checkbox"/>
	Employer Identification No. <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div>			
<b>CHECKS</b> The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:				
(1) Review the report carefully to see that no items are omitted for the year being covered. (2) Calculate and enter figures for the four "reasonableness" checks below, and review the results. (3) Correct your report for any errors you find and explain unusual figures in "Remarks." For most manufacturing establishments, the figures computed usually fall within the ranges indicated.				
<b>"Reasonableness" checks</b>		<b>Calculation required for each check</b>		<b>Figures for 1972</b> <b>Usual range</b>
a. Average hourly wages per production worker	Item 3Ae (Production workers' wages) ÷ Item 4e (Total man-hours)		\$	\$1 — \$10
b. Hours worked per week per production worker	Item 4e (Total man-hours) × 20 ÷ Item 2f (Average number of production workers)		Hrs.	20 — 60
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 1B (Total value of shipments)		¢	05¢ — 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 1B (Total value of shipments)		¢	05¢ — 95¢
e. Is the total for Value of Shipments (item 1B) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5D)? ..... <input type="checkbox"/> YES <input type="checkbox"/> NO — Explain in "Remarks"				
Remarks				

Please continue on page 3

# APPENDIX C—Continued

<b>Form MC-36B</b> <b>(3602)</b>	U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS <b>1972 CENSUS OF MANUFACTURES</b> <b>SWITCHGEAR AND SWITCHBOARD APPARATUS</b> <b>AND INDUSTRIAL CONTROLS - Continued</b>	PLEASE ENTER YOUR CENSUS FILE NUMBER <span style="border: 1px solid black; padding: 0 5px;">  </span>	Page 3					
Name of establishment (Same as address box)								
<b>Item 16 - INDUSTRIAL WATER USE DURING 1972</b>								
Please indicate the total quantity of water used by this establishment during the calendar year 1972. Include both fresh and brackish water. Include water recirculated and reused. Report the total annual consumption of water; do NOT report hourly, daily, weekly, or monthly rates of consumption. (MARK ONE BOX ONLY)								
<input checked="" type="checkbox"/> 548 <input type="checkbox"/> Under 20 million gallons <input type="checkbox"/> 20 to 99 million gallons <input type="checkbox"/> 100 million gallons or more								
<b>Item 17 - CONSUMPTION OF SELECTED MATERIALS DURING 1972</b> Report separately for each listed material that was actually consumed or put in production during 1972.								
<b>Section I - CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS</b>								
<b>INSTRUCTIONS</b>  <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Report delivered cost of the individual items below which were consumed or put in production during 1972. (See General Instructions (item 5) for valuation.)</p> <p>Include materials owned by this establishment but consumed by other establishments to make products for this establishment under contract.</p> <p>(Report cost of contract work in item 5e; and the value of the products produced in item 18.)</p> </div> <div style="width: 45%;"> <p>Exclude materials owned by others used in this plant to make products for other establishments under contract or on commission. However, report receipts for this contract work in item 18.</p> <p>If you consumed some of the specified material but less than \$5,000 worth of the item, enter an (X) in column (E) and include the value with "All other materials, etc." - Code 970099.</p> </div> </div>								
Line number	Materials, parts, and supplies (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Consumption of purchased materials and of materials received from other establishments of your company				
				If \$5,000 or more of the listed item was consumed -	If you consumed some but less than \$5,000 worth of the listed item, enter an (X)			
				Quantity (C)	Cost, including delivery cost (freight-in) (D)	Enter in column (E)		
					Thousands 000	Thousands 000	Thousands 000	(E)
1	MILL SHAPES AND FORMS (EXCEPT CASTINGS)	Carbon steel	571	Short tons	572	573		
		Bars and bar shapes	331011	7	\$			<input type="checkbox"/>
2		Sheet and strip	331012	5				<input type="checkbox"/>
3		Plates	331013	3				<input type="checkbox"/>
4		Structural shapes	331015	8				<input type="checkbox"/>
5		All other carbon steel mill shapes and forms	331019	0				<input type="checkbox"/>
6		Alloy steel (except stainless)	331020	8				<input type="checkbox"/>
7		Stainless steel	571	Short tons	572	573		
		Sheet and strip	331033	1				<input type="checkbox"/>
8		All other stainless steel mill shapes and forms	331050	5				<input type="checkbox"/>
9		Insulated wire and cable	571	Thousand pounds	572	573		
		Report copper content in column (C)	335790	2				<input type="checkbox"/>
10		Report aluminum content in column (C)	335791	0				<input type="checkbox"/>
11		Copper and copper-base alloy	571	Thousand pounds	572	573		
		Bare wire (for electrical conduction only)	335728	2				<input type="checkbox"/>
12		Rod, bar, and mechanical wire, including extruded and/or drawn shapes	335102	0				<input type="checkbox"/>
13		Plate, sheet, and strip, including military cups and discs	335123	6				<input type="checkbox"/>
14		Pipe and tube	335127	7				<input type="checkbox"/>
15		Aluminum and aluminum-base alloy	571	Thousand pounds	572	573		
		Sheet, plate, and foil	335202	8				<input type="checkbox"/>
16		Extruded shapes, including extruded rod, bar, pipe, tube, etc.	335205	1				<input type="checkbox"/>
17		All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)	335209	3				<input type="checkbox"/>
18	CASTINGS (ROUGH AND SEMIFINISHED)	Steel	571	Short tons	572	573		
			332300	3				<input type="checkbox"/>
19		Aluminum and aluminum-base alloy	571	Thousand pounds	572	573		
			336100	3				<input type="checkbox"/>
20		Copper and copper-base alloy	571	Thousand pounds	572	573		
			336200	1				<input type="checkbox"/>

Please continue on page 4



# APPENDIX C—Continued

Form MC-36B

Item 17 — CONSUMPTION OF SELECTED MATERIALS DURING 1972 — Continued										Page 4
Section I — CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS — Continued										
Line number	Materials, parts, and supplies (A)	Census material code (B-1)	Unit of measure for quantities (B-2)	Consumption of purchased materials and of materials received from other establishments of your company			If you consumed some but less than \$5,000 worth of the listed item, enter an (X) (E)			
				If \$5,000 or more of the listed item was consumed —						
				Quantity (C)	Cost, including delivery cost (freight-in) (D)					
					Millions 000	Thousands 000		Dollars 000		
21	INDUSTRIAL ELECTRICAL CONTROL EQUIPMENT (Received for incorporation only into other industrial electrical control equipment shipped, as such, by this plant.)	571		573						
	Purchased from other companies	362200	8	\$			<input type="checkbox"/>			
22	Received from other plants of your company	362209	9	\$			<input type="checkbox"/>			
23	Thermoplastic resins including modified resins. (Cellulosics, polyethylenes, styrenes, etc. Include solid and liquid, but exclude sheets and other shapes.)	571	Thousand pounds	572	573		<input type="checkbox"/>			
		282130	4							
24	Thermosetting resins (Melamines, phenolics, polyesters, ureas, etc. Include solid and liquid, but exclude sheets and other shapes.)	571	Thousand pounds	572	573		<input type="checkbox"/>			
		282140	3							
25	All other materials and components, parts, containers, and supplies consumed (List the three principal "All other materials, etc.," included in the above.)	571		573						
		970099	8							
26	<b>TOTAL</b> (Sum of lines 1-25 should be same as item 5a.)			\$						
Section II — CONSUMPTION OF CASTINGS PRODUCED IN THIS ESTABLISHMENT AND CONSUMED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT										
INSTRUCTIONS										
<p>Report below the quantity of each listed item produced in this establishment and consumed in manufacturing products made in this establishment.</p> <p>Purchases or receipts of the items specified below should be reported only in section I.</p> <p>Materials used to produce the items specified below should be reported in section I of item 17.</p> <p>Quantities produced for sale as such and not for incorporation in other products should be reported in item 18.</p> <p>Report quantities in the unit of measure specified in column (B-2).</p>										
Line number	Item (A)	Census material code (B-1)	Unit of measure (B-2)	Quantities produced in this establishment and consumed in manufacturing other products made in this establishment (F)						
1	CASTINGS (ROUGH AND SEMIFINISHED) Steel	571	Short tons	575						
		332300	3							
2	Aluminum and aluminum-base alloy	571	Thousand pounds	575						
		336100	3							
3	Copper and copper-base alloy	571	Thousand pounds	575						
		336200	1							
Remarks										

Please continue on page 5

# APPENDIX C—Continued

Form <b>HC-36B</b> (3602)		U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS		PLEASE ENTER YOUR CENSUS FILE NUMBER		Page <b>5</b>			
1972 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS - Continued				Name of establishment (Same as address box)					
<b>Item 18 - PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1972</b> Please read the entire list of products and services below before answering this inquiry.									
<b>INSTRUCTIONS</b> Report net selling value, f.o.b. plant, after discounts and allowances and exclusive of freight charges and excise taxes. Include products made elsewhere for this establishment on a contract basis from materials supplied by this establishment. (The cost of these materials should be included in items 5a and 17.) Exclude products made in this establishment on a contract basis from materials owned by others. Report commission or contract receipts on the appropriate line below. (Exclude materials consumed in making these items from items 5a and 17.) <b>TIE-IN LINES</b> - This report requests totals for groups of products covered in more detail on Annual Census Surveys MA-36A, "Switchgear, Switchboard Apparatus, Relays and Industrial Controls," MA-38B, "Selected Instruments and Related Products," MA-36K, "Wiring Devices and Supplies," and MA-36N, "Selected Electronic and Associated Products." The relationship of figures between this survey and those above is noted in columns (B-3 and B-4). <b>Line 25 - RESALES</b> - Report the selling value, f.o.b. plant, of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment. Report the cost of these products in item 5b.									
Line number	Products and services  (A)	Census product code (B-1)	Unit of measure for quantities (B-2)	Corresponds to the sum of products reported on -		Products shipped and other receipts			
				Census form (B-3)	Code (B-4)	Quantity (D)	Value, f.o.b. plant (E)		
							Millions 000	Thousands 000	Dollars 000
1	Switchgear, except ducts and relays (36131)	36131 00	1	MA36A	3613111- 3613193	\$54			
2	Power circuit breakers, all voltages (36132)	36132 00	9	MA36A	3613243	\$54			
3	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under (36133)	36133 00	7	MA36A	3613311- 3613398	\$54			
4	Fuses and fuse equipment under 2300 volts, except power distribution cut-outs (36134)	36134 00	5	MA36A	3613431- 3613493	\$54			
5	Molded case circuit breakers, 750 volts and under (36135)	36135 00	2	MA36A	3613511- 3613598	\$54			
6	Duct, including plug-in units and accessories, 750 volts and under (36136)	36136 00	0	MA36A	3613611- 3613631	\$54			
7	Relays, control circuit (36137)	36137 00	8	MA36A	3613701- 3613703	\$54			
8	General industry power circuit devices and controls - industrial controls (36220)	36220 00	2	MA36A	3622012- 3622099	\$54			
9	Integrating instruments, electrical	36111 00	3	MA38B	3611110- 3611161	\$54			
10	Other electrical measuring instruments, excluding instrument transformers	36113 10	8	MA38B	3611308- 3611376	\$54			
11	Instrument transformers	36113 40	5	MA38B	3611382- 3611383	\$54			
12	Power mercury arc rectifiers	36292 S1	4	Number of units		\$54			
13	Current-carrying wiring devices, including lightning rods	36430 00	7	MA36K	3643001- 3643099	\$54			
14	Electric conduit and conduit fittings	36442 00	2	MA36K	3644221- 3644272	\$54			
15	Resistors for electronic applications	36793 00	8	MA36N	3679311- 3679355	\$54			
16	Controls for monitoring residential and commercial environments and appliance regulating controls	38220 00	0	MA38B	3822020- 3822070	\$54			
17	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT					\$54			
18						\$54			
19						\$54			
20						\$54			
21	CONTRACT WORK	33000 00	8			\$54			
22	MISCELLANEOUS RECEIPTS					\$54			
23						\$54			
24						\$54			
25	RESALES					\$54			
26	TOTAL					\$			

Please continue on page 6

# APPENDIX C -Continued

Form MC-36B

Item 19 - Not applicable to this form.					Page 6																																											
<b>Item 20 - SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1972</b>																																																
Section I - Were any of the operations listed below performed in this establishment in 1972?					5 Census code 208	(X) appropriate box YES 1 <input type="checkbox"/>	NO 2 <input type="checkbox"/>																																									
Section II - If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1972. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.																																																
Line number	Operation (A)	Census code (B)	Was this operation performed in this establishment during 1972? (C)		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D)																																											
			YES	NO																																												
1	Foundry (iron or steel)	018	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
2	Foundry (nonferrous, except die casting)	026	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
3	Electroplating and other plating	059	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
4	Heat treating of metals for production purposes	075	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
5	Automatic screw machine department	083	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
6	Machine shop	091	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
7	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	109	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
8	Pattern shop (foundry patterns only - metal, wood, etc.)	117	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
9	Plate or structural fabrication	125	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
10	Stamping, blanking and forming of metals	133	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
11	Painting, lacquering and enameling on metals	141	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
12	Plastics molding	158	1 <input type="checkbox"/>	<input type="checkbox"/>																																												
Item 21 - Not applicable to this form.																																																
Remarks																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="4" style="width: 10%; text-align: center; vertical-align: middle;"><b>Item 22</b></td> <td colspan="2" style="padding: 2px;">Name of person to contact regarding this report</td> <td colspan="2" style="padding: 2px;">Address (Number and street, city, State)</td> <td style="padding: 2px;">ZIP code</td> <td colspan="3" style="padding: 2px;">Telephone</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td></td> <td style="padding: 2px;">Area code</td> <td style="padding: 2px;">Number</td> <td style="padding: 2px;">Extension</td> </tr> <tr> <td colspan="8" style="padding: 2px;">This report is substantially accurate and covers the period from _____ to _____</td> </tr> <tr> <td colspan="4" style="padding: 2px;">Name of company</td> <td colspan="2" style="padding: 2px;">Address (Number and street, city, State)</td> <td colspan="2" style="padding: 2px;">ZIP code</td> </tr> <tr> <td colspan="5" style="padding: 2px;">Signature of authorized person</td> <td colspan="2" style="padding: 2px;">Title</td> <td colspan="2" style="padding: 2px;">Date</td> </tr> </table>							<b>Item 22</b>	Name of person to contact regarding this report		Address (Number and street, city, State)		ZIP code	Telephone								Area code	Number	Extension	This report is substantially accurate and covers the period from _____ to _____								Name of company				Address (Number and street, city, State)		ZIP code		Signature of authorized person					Title		Date	
<b>Item 22</b>	Name of person to contact regarding this report		Address (Number and street, city, State)		ZIP code	Telephone																																										
						Area code		Number	Extension																																							
	This report is substantially accurate and covers the period from _____ to _____																																															
	Name of company				Address (Number and street, city, State)		ZIP code																																									
Signature of authorized person					Title		Date																																									



## APPENDIX C—Continued

### INSTRUCTIONS FOR COMPLETING THE 1972 CENSUS OF MANUFACTURES FORMS

#### GENERAL INSTRUCTIONS

A separate Census report is required for each business location. Therefore, based on Census records, a report form is provided for each location which your company operated in 1972.

For purposes of the Census, a manufacturing establishment is defined as a single physical location where manufacturing operations are performed (e.g., a factory, mill, or plant). Thus a separate report is required for different physical locations even though the establishments may be engaged in the same line of manufacturing.

Please note that establishments engaged in the following activities are also considered to be manufacturing for the purposes of this Census: Poultry dressing; milk pasteurizing and bottling; seafood, fresh packaged or frozen; apparel jobbing and contracting; logging camps and logging; sawmills; printing; publishing—book, magazine, periodical, etc.; manufacturing and delivering ready-mixed concrete; machine shops, including those operating on a job order basis; job casting, stamping, machining; plating, galvanizing, polishing materials owned by others, etc.; ship and boat repairing.

In completing this report, a limited amount of prorating or estimating is acceptable if book records are not readily available. Include all the activities conducted within the establishment: e.g., manufacturing, fabricating, processing,

and assembling; maintenance of plant and equipment; receiving, shipping, warehousing, storage; research; recordkeeping; health, safety, cafeteria, and other services.

Each report should cover the calendar year 1972. However, a report is required even if the establishment operated only part of the year. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will require considerable additional costs, and your fiscal year covers at least 10 months of the calendar year 1972 (i.e., ends between October 31, 1972 and February 28, 1973) you may report on a fiscal year basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (Calendar year payroll records should be available from your tax records.)

In the certification, enter the exact dates of the period covered by the report. If the ownership changed during the year, complete the report only for that part of 1972 in which your company owned and operated the establishment. Report in item 13 the appropriate information on changes in ownership or operations.

If additional report forms are needed, write to the Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47130. Be sure to describe the type of activity of the establishments for which the additional report forms are requested.

#### INSTRUCTIONS FOR ITEMS 1 THROUGH 14

- **Item 1A and 1B—Physical Location and Employer Identification Number**—Accurate and precise information on the physical location of each establishment is needed in order to prepare the tabulation of manufacturing activity in each State, county, and city. Each establishment has tentatively been coded geographically based on the street address in the mailing label, on the assumption that the physical location and mailing address are the same. Please be certain to complete item 1A, part a, if this is not so. Item 1A, part b, and part c, must be completed even if the physical location and the mailing address are identical. Although the system devised by the Census Bureau codes adequately to State and county in all instances, in many localities it cannot clearly distinguish an address that is in the city from one that is out of the city.

Be certain to enter in item 1B, the current Employer Identification Number if it is different from the one printed in the address label. This information is needed so that the Census Bureau can avoid sending duplicate report forms for the same location. Our file of new business formations is based on the new employer identification numbers issued each year. However, we exclude mailing report forms to new employer identification numbers if we identify them as belonging to existing respondents.

(Definitions of employees and payrolls used to calculate withholding taxes generally may be followed in completing item 2 and 3A, Employment and Payrolls.)

- **Item 2—Number of Employees**—Report employees at the establishment who worked or received pay for part of the pay period including the 12th of specified months (March, May, August, and November). Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of Armed Forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor, or partners.
- **Items 2a–2d—Number of Production Workers**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Exclude proprietors and partners.
- **Item 2e—All Other Employees**—Nonproduction personnel, including those engaged in the following activities; supervision above working foreman level, sales (including driver salesmen), sales delivery (truck drivers and helpers), advertising, credit, collection, installation and servicing of own product, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, etc.), professional and technical. Exclude proprietors and partners.
- **Item 3A—Payrolls**—Report the gross earnings paid in the calendar year to employees at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and saving bonds.

Include in gross earnings commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind.

Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietors or partners.

Exclude payments to agricultural employees, fishermen, members of the Armed Forces, and pensioners carried on your active payroll.

- **Item 4—Plant Man-Hours of Production Workers by Quarter**—Include all man-hours worked or paid for, except hours paid for vacation, holidays, or sick leave. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

- **Item 5—Cost of Materials**—Report total cost of the materials actually consumed or put in production during the year.

If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.

Cost is delivered cost—i.e., the amount paid or payable after discounts and including freight and other direct charges incurred by the establishment in acquiring the materials.

Include all materials received for consumption; i.e., purchases from other companies, transfers from other establishments of your own company, withdrawals from inventories.

If the establishment produces items subsequently consumed in further production, report cost of original materials consumed only.

- **Item 5a—Cost of Materials, Parts, Components, Containers, etc., Consumed**—The delivered cost figures reported in item 5a should cover all raw materials, containers, scrap, and supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Item 5a should be consistent with the data in item 17.

Include also cost of materials owned by you but consumed by other companies to make products for your establishment under contract. (The value of these products should be reported in item 18). Amounts paid to other companies for such contract work should be reported on Line 5e and should include freight in and out.

Include only physical goods used or put into production.

Exclude services used or overhead charges, such as advertising, telephone, telegram and cable, insurance, developmental and research; services of engineering, management, marketing and other professional consultants, etc., unless charges for such services are included in the prices paid for materials.

Exclude also overhead items such as depreciation charges against plant and equipment; rent and rental allowances; interest payments, royalties, and patent fees.

Exclude materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant, or new machinery and equipment, and which are chargeable to fixed assets accounts. Exclude products purchased and resold without further manufacture or processing or assembly; their costs should be included in item 5b.

- **Item 5b—Cost of Products Bought and Resold**—Report the cost of all products bought and resold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products resold is to be reported in item 18 on the line for resales.)

- **Item 5c—Cost of Fuels Consumed**—Report the total amount actually paid or payable during the year for all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a by-product of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels including purchased steam.

- **Item 5d—Cost of Purchased Electricity**—Report the total amount actually paid or payable for electric energy purchased during the year from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

- **Item 5e—Cost of Contract Work Done for You by Others on Your Materials**—If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.

- **Item 6—Inventories of This Establishment at Beginning and End of Year**—Inventories should be reported at approximate current costs, if feasible; otherwise at book values. It is important that inventories should be reported on a comparable basis at the beginning and end of year.

- **Item 7—Capital Expenditures During Year (Exclude expenditures for land)**—Include all cost actually incurred during 1972 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained.

- **Item 7a—New Structures and New Additions to Plant (Exclude expenditures for land)**—Report total expenditures during the year for new construction (whether constructed on contract or by your own force), major alterations, capitalized repairs, and improvement of buildings (including all new elevators, cranes, heating and ventilating equipment essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities).

- **Item 7b—New Machinery and New Equipment**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include replacements as well as additions to capacity. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks, and other similar equipment. Report value of improvement and capitalized repairs to machinery and equipment, whether repairs and improvements were purchased or made by employees of your company.

- **Item 7c—Used Plant and Used Equipment Acquired From Others**—Report total expenditures at this establishment for old or existing plants and for second-hand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.

- **Items 13 and 14—Change in Ownership or Company Affiliation and Organization**—Please complete these items fully if pertinent. Accurate completion of these items will avoid unnecessary correspondence, as well as reduce the possibility of your receiving more than one report form for the manufacturing activity at this location.

# APPENDIX C—Continued

**PENALTIES FOR FAILURE TO REPORT** DUE DATE: FEBRUARY 15, 1973

Form Approved: O.M.B. No. 41-571102

**FORM MA-100** U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION  
BUREAU OF THE CENSUS

**1972 ANNUAL SURVEY OF MANUFACTURES**

(For 1973 this is the first sheet of the 1972 Census of Manufactures form)

RETURN THIS COPY TO Bureau of the Census  
Jeffersonville, Indiana 47130

**ITEM 1** a. Is this establishment still located in the State, county, and place shown below? (If blank or incomplete, please complete (1) through (4).)  
☐ YES - Skip to part b ☐ NO - Correct or complete lines (1) through (4)

(1) Number and street  
(2) City, village, or other place State ZIP code  
(3) County (4) If you corrected lines 1, 2, or 3, give year moved to new location. 19

Complete a, b, and c. b. Is this establishment physically located WITHIN THE LEGAL BOUNDARIES of the city, village, or other place?  
☐ YES ☐ NO

c. Is the Employer Identification (EI) Number printed in the address box the SAME as that used for this establishment on your latest Employer's Quarterly Federal Tax Return, Treasury Form 941?  
☐ YES ☐ NO - Enter currently assigned EI No. here

**Be sure to read Instruction Manual before completing report. Report items 3-11 in THOUSANDS (Example: If total payroll is \$215,166, enter 215).**

Complete each item, enter "0" when appropriate		3	Key	1972	1971	Complete each item, enter "0" when appropriate		3	Key	1972	Key	1971
<b>ITEM 2</b> Number of employees	a. March	301				<b>ITEM 6</b> Inventories of this establishment at end of year (\$000)	a. Finished products	338			301	
	b. May	302					b. Work-in-process	339			302	
	c. August	303					c. Materials, supplies, fuels, etc.	337			303	
	d. November	304					d. TOTAL (Item 6)	336			304	
	e. Sum of lines a-d	305										
	f. Average number (Divide line e by 4, omit fractions)	306										
<b>ITEM 3A</b> Payrolls (\$000)	g. All other employees (pay period including March 12th)	307				<b>ITEM 7</b> Capital expenditures during year (Exclude land) (\$000)	a. New structures and new additions to this plant (Exclude land)	341				
	h. TOTAL f and g (Item 2)	308					b. New machinery and new equipment	342				
	a. Production workers' wages	311					c. Used plant and used equipment	343				
	b. All other salaries and wages	312					d. TOTAL (Item 7)	344				
<b>ITEM 3B</b> Suppl. labor costs not incl. in payroll (\$000)	c. TOTAL (Item 3A)	313				<b>ITEM 8</b> Quantity of electricity (Thousands of KWH)	a. Purchased electricity (cost is reported in 3d)	345				
	a. Legally required expenditures, incl. Social Security contributions	361					b. Generated electricity (gross less generating station use)	346				
	b. Payments for voluntary programs	362					c. Electricity sold or transferred to other establishments	347				
<b>ITEM 4</b> Plant man-hours of production workers by quarter (Hrs. 000)	c. TOTAL (Item 3B)	363				<b>ITEM 10</b> Gross value of depreciable assets (original cost, and of year) (\$000)	a. Buildings and other structures (Exclude land)	352				
	a. January through March	314					b. Machinery and equipment	353				
	b. April through June	315					c. TOTAL (Item 10)	354				
	c. July through September	316										
<b>ITEM 5</b> Cost of materials (\$000)	d. October through December	317				<b>ITEM 11</b> Rental payments (\$000)	a. Buildings and other structures (Exclude land)	355				
	a. TOTAL (Item 4)	318					b. Machinery and equipment	356				
	a. Cost of materials, parts, components, containers, etc., consumed	321					c. TOTAL (Item 11)	357				
	b. Cost of products bought and resold as such	322										
	c. Cost of fuels consumed	323										
	d. Cost of purchased electricity	324										
<b>ITEM 9</b> Quantity and value of products shipped and other receipts	e. Cost of contract work done for you by others on your materials	325										
	f. TOTAL (Item 5)	326										
	a. January through March	314										
	b. April through June	315										
	c. July through September	316										
	d. October through December	317										
Product classes of this establishment If printed descriptions are incorrect, please revise. Describe all additional products. If more lines are needed, use item 9 - Continued, on page 2.	a. TOTAL (Item 9)	326										
	(a)											
	(b)											
	(c)											
	(d)											
	(e)											
	(f)											
	(g)											
	(h)											
	(i)											
	(j)											
	(k)											
L. Enter TOTAL from page 2, item 9 - Continued, line e												
m. Receipts for work or services you performed for others on their materials - Describe												
n. Miscellaneous receipts (repair work, installation, sales of scrap, etc.) - Describe												
o. Sales of products bought and resold without further manufacture, processing, or assembly (Report cost in item 5b)												
p. TOTAL (Item 9)												

Please continue on page 2



# APPENDIX C-Continued

Page 2

ITEM 11		Additional products of this establishment (Describe)		Product class code (See manual)	Unit of quantity	1972	
Continued		(a)	(b)	(c)	(d)	(e)	
Quantity and value of products shipped and other receipts (\$000)	a.		561		562	563	
	b.		561		562	563	
	c.		561		562	563	
	d.		561		562	563	
	e.	TOTAL (Transfer to page 1, item 9, line 1)					
ITEM 12 Not applicable this year							
ITEM 13							
112 MARK ONE BOX							
<input type="checkbox"/> No change in operator or operations <input type="checkbox"/> Reorganized - Describe in "Remarks," e.g., partnership change or change in corporate status. <input type="checkbox"/> Started new business - Date <input type="checkbox"/> This establishment was purchased or leased from another company - Complete the following information:							
Name of former operator or owner: _____ Address (Number, street, city, State, ZIP code): _____ Date: _____ El Number (9 digits): _____							
<input type="checkbox"/> Plant dismantled, abandoned, or destroyed on - Date: _____ <input type="checkbox"/> Plant idle or inactive but still owned - Date: _____							
<input type="checkbox"/> This establishment was sold or leased to another company - Complete the following information:							
Name of new operator or owner: _____ Address (Number, street, city, State, ZIP code): _____ Date: _____ El Number (9 digits): _____							
ITEM 14							
NOTE: Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"? <input type="checkbox"/> YES - Complete item 14A, e through d <input type="checkbox"/> NO - Skip to Item 15 below							
ITEM 14A							
113 a. Is this company owned or controlled by another company? <input type="checkbox"/> YES - Complete the following information <input type="checkbox"/> NO							
Name, address, and Employer Identification Number of owning or controlling company: _____ Activity of owning or controlling company (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold): _____ Employer Identification Number: _____							
114 b. Does this company own or control any other companies? <input type="checkbox"/> YES <input type="checkbox"/> NO							
c. Does this company operate more than one establishment? <input type="checkbox"/> YES <input type="checkbox"/> NO							
d. Did this company have any manufacturing plants under construction but not in operation at the end of the year? <input type="checkbox"/> YES <input type="checkbox"/> NO							
ITEM 14B							
Other companies owned or establishments operated							
Complete only if item 14A b or c is marked "YES."							
Name, address, and Employer Identification Number: _____ Activity (Describe, e.g., manufacturing, retail, wholesale, etc., and chief products sold): _____ 1972 payroll and sales (\$000): _____ Are payroll and sales included on page 1 of this report? YES <input type="checkbox"/> NO <input type="checkbox"/>							
Payroll \$ _____ Sales \$ _____ Payroll \$ _____ Sales \$ _____							
ITEM 15							
CHECKS: The Census Bureau reviews your report for omissions, inconsistencies, and unusual figures. To save you future correspondence about these problems, please make the following checks before returning your report:							
(1) Review the report carefully to see that no items are omitted for the year being covered. (2) Calculate and enter figures for the four "reasonableness" checks below, and review the results. (3) Correct your report for any errors you find and explain unusual figures in "Remarks." For most manufacturing establishments, the figures computed usually fall within the ranges indicated.							
"Reasonableness" checks							
Calculation required for each check		Figures for 1972		Usual range			
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4c (Total man-hours)	\$		\$1 - \$10			
b. Hours worked per week per production worker	Item 4c (Total man-hours) ÷ 20 ÷ item 2f (Average number of production workers)	Hrs.		20 - 60			
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 9p (Total value of shipments)	¢		05¢ - 95¢			
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 9p (Total value of shipments)	¢		05¢ - 95¢			
e. Is the total for Value of Shipments (item 9p) greater than the sum for Payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? <input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in "Remarks"							
f. Is the gross value of depreciable assets (item 10c) minus total capital expenditures (item 7d), within 5% of gross depreciable assets at the beginning of the survey year? <input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in "Remarks"							
Remarks							

Please continue on page 3



# APPENDIX C—Continued

**DUE DATE: THIRTY DAYS AFTER RECEIPT OF FORM**

C.M.B. No. 41-R2349 Approval Expires November 30, 1978

<p><b>FORM MA-171</b> 11-29-74</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p> <p style="text-align: center;"><b>DEPARTMENT OF DEFENSE-OWNED AND -OPERATED ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY, AND/OR RESEARCH AND DEVELOPMENT</b> (Includes shipyards)</p> <p style="text-align: center;">(Supplement to the Annual Survey of Manufactures, Census Form MA-100)</p> <p><b>INSTRUCTIONS</b> — This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included. The information requested is based upon reports now regularly prepared by most such establishments.</p>		<p><b>NOTICE</b> — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p style="text-align: center;">Please correct if any error in name and address, including ZIP code.</p> <p style="text-align: center;"><b>PLEASE RETURN THIS COPY</b></p>													
<p><b>ITEM 1 — NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1974</b></p>															
<p><b>a. Name of establishment</b></p> <p>Your answers to parts b, c, d, e, and f of this item should relate to the <b>ACTUAL PHYSICAL LOCATION</b> of this establishment which may be different from the mailing address.</p>		<p><b>d. Is this establishment physically located within the legal boundaries of the place named in "c"?</b></p> <p style="text-align: center;"><input type="checkbox"/> Yes      <input type="checkbox"/> No</p>													
<p><b>b. Street and number of establishment location*</b></p> <p>*If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.</p>		<p><b>e. County in which located</b></p> <p><b>f. State</b> _____ <b>ZIP code</b> _____</p>													
<p><b>c. Type and name of place in which located (Mark first applicable type and enter name of place.)</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:30%;">Type</th> <th style="width:70%;">Name of place</th> </tr> <tr> <td><input type="checkbox"/> City</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Village or borough</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Town</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Township</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other (Specify)</td> <td></td> </tr> </table>		Type	Name of place	<input type="checkbox"/> City		<input type="checkbox"/> Village or borough		<input type="checkbox"/> Town		<input type="checkbox"/> Township		<input type="checkbox"/> Other (Specify)		<p><b>g. Telephone number of establishment (Include area code)</b></p> <p><b>ITEM 2 — NATURE OF ACTIVITY</b> Describe briefly the kind of activity of this establishment. If a manufacturing plant, list the three most important products.</p>	
Type	Name of place														
<input type="checkbox"/> City															
<input type="checkbox"/> Village or borough															
<input type="checkbox"/> Town															
<input type="checkbox"/> Township															
<input type="checkbox"/> Other (Specify)															
<p><b>ITEM 3 — EMPLOYMENT AND PAYROLLS IN CALENDAR YEAR 1974</b> (Civilian employees only)</p>															
	Class of employee	Item code	Number of civilian employees in 1974						Total wages and salaries of civilian employees (Thousands of dollars) (G)						
			At end of quarter (As reported on Civil Service Form SF-113-A**)				Sum of columns A, B, C, and D (E)	Average number of employees (Col. E divided by 4) (F)							
			March (A)	June (B)	September (C)	December (D)									
			a. Wage Board employees	41								\$			
			b. All others	42								\$			
c. <b>TOTAL CIVILIAN EMPLOYEES</b> (Sum of lines a and b)		49						\$							
<p>**The number of Wage Board employees (line a) should be the same as reported on line 5 of SF-113-A. The total (line c) should be the same as reported on line 1 of SF-113-A.</p>															
<p><b>ITEM 4 — MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1974</b></p>															
		Item code	1974 Quarterly period	Man-days (Thousands) (A)	Estimated number of man-hours*** (Thousands) (B)										
		S1	a. January through March												
		S2	b. April through June												
		S3	c. July through September												
		S4	d. October through December												
		S9	e. <b>TOTAL, 1974</b> (Sum of lines a, b, c, and d)												
<p>***Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employee in this establishment.</p>															

Please continue on page 2

# APPENDIX C—Continued


<b>ITEM 5 BILLINGS BY THIS ESTABLISH- MENT DURING CALENDAR YEAR 1974</b>	Enter below the specified classes of billings of this establishment for calendar year 1974			
	Billings for products and services (including progress billings)	Item code	Value (Thousands of dollars)	
	Manufacture and assembly	61	\$	
	Construction and conversion	62		
	Overhaul, repair, and renovation	63		
	Alteration and modification	64		
	Research and development	65		
	Other billings	66		
	Total billings for products and services	67		
	Increase or decrease in unbilled costs of work in progress	68		
<b>TOTAL EARNED REVENUE</b> →		69		
<b>ITEM 6 COSTS DURING CALENDAR YEAR 1974</b>	Types of costs incurred		Item code	Cost (Thousands of dollars)
	Materials, supplies, and parts used		71	\$
	Wages and salaries (same as item 3, code 49, col. G)		72	
	Contractual services and other costs		73	
	<b>TOTAL COSTS INCURRED</b> →		79	
	<b>VALUE ADDED (Census use only)</b>		81	
<b>ITEM 7 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT</b>  (Please complete this item after you have answered all items on this report.)	The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:			
	a. Review this report carefully to see that no items are omitted.			
	b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.			
	c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.			
	"Reasonableness" checks	Calculation required for each check		Resulting figures for 1974
	(1) Average hourly wages per Wage Board employee	Item code 41, column G (Wages paid Wage Board employees) ÷ item code 59, column B (Total estimated man-hours)		\$
(2) Man-days per year per Wage Board employee	Item code 59, column A (Wage Board man-days in thousands) X 1,000 ÷ item code 41, column F (Average number of Wage Board employees)		Man-days	
(3) Wages and salaries per dollar of earned revenue	Item code 72, (Wages and salaries of civilian employees) ÷ item code 69 (Total earned revenue)		\$	
(4) Is the total earned revenue (item code 69, total) greater than total costs incurred (item code 79, total)? <input type="checkbox"/> Yes <input type="checkbox"/> No (If "No," please explain in "Remarks" section.)				
<b>ITEM 8 REMARKS PERTAIN- ING TO THIS REPORT</b>				
<b>PERIOD OF REPORT</b>	This report covers the period from _____ to _____			
<b>ITEM 9</b>	Name of person to be contacted regarding this report	Address (Street and number, city, State, ZIP code)		Telephone (Area code, number, extension)
<b>ITEM 10</b>	<b>CERTIFICATION</b> — This report is substantially accurate and has been prepared in accordance with instructions.			
	Name of establishment		Address (Street and number, city, State, ZIP code)	
	Signature of authorized official		Title	Date

FORM MA-171 (11-25-74)

## APPENDIX C—Continued

**DUE DATE: 30 DAYS AFTER RECEIPT OF FORM**

O.M.B. No. 41-572061; Approval Expires December 31, 1974

<p><b>FORM NC-D4</b> (7-8-1-72)</p> <p>U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION BUREAU OF THE CENSUS</p>	<p>(Please correct any error in name or address including ZIP code)</p>
<p><b>1972 CENSUS OF MANUFACTURES</b></p> <p><b>REPORT FROM PENAL INSTITUTIONS</b></p>	
<p>Please complete this form and <b>RETURN TO:</b> </p>	<p><b>BUREAU OF THE CENSUS</b> Industry Division Washington, D.C. 20233</p> <p>(PLEASE RETURN THIS COPY)</p>

PRODUCTS MADE IN THIS ESTABLISHMENT DURING 1972

### INSTRUCTIONS FOR TOTAL PRODUCTION

**Column (D) - Quantity -** Report where appropriate the quantity of all products you made in this institution during 1972. Include products produced for use within the institution and products transferred to other branches of your government.

**Column (E) - Value - Report at approximate market value all products, either used within the institution or transferred to other governmental units.**

Line No.	Product (A)	Unit of measure (B)	Total production		Census product code (J)
			Quantity (D)	Value (Thousands of dollars) (E)	
1	Meat and meat products			\$	201
2	Canned foods				203
3	Coffee and tea				209
4	Tobacco, chewing and smoking				210
5	Blankets				221
6	Woven fabrics	Thousand pounds			223
7	Cordage and twine	Thousand linear yards			229
8	Apparel and clothing, including uniforms, coats, etc.				231
9	Sheets and pillowcases				232
10	Canvas specialties				239
11	Mattresses				251
12	Wooden furniture				253
13	Printing and binding				275
14	Soaps				284
15	Paints				285
16	Shoes	Pairs			314
17	Brick      Clay Concrete	Thousand brick			325
18		Thousand block 8"x8"x16" equivalent			326
19	Concrete blocks				327
20	Motor vehicle license plates (Count a set of front and rear plates as two plates)	Number			346
21	Highway and road signs				348
22	Miscellaneous metal products				349
23	Brooms and brushes				378
24	Prepared animal feeds				384
25	All other products (Specify kind and unit of measure)				
26					
27					
28					
29					
30	TOTAL —————→ (Sum of lines 1-29)			\$	

Name of person to contact regarding this report	Address (Number and street, city, State)	ZIP code	Telephone		
			Area code	Number	Extension
<b>CERTIFICATION</b> - This report is substantially accurate and covers the period from _____ to _____.					
Signature of authorized person		Title		Date	

Please use reverse side for remarks

USE ONLY PC



# APPENDIX C-Continued

<b>PENALTY FOR FAILURE TO REPORT</b> <b>DUE DATE: FEBRUARY 15, 1973</b> <b>Form Approved: O.M.B. No. 41-571116</b>	
<b>Form CB-511</b> <small>(5110)</small> <b>1972 CENSUS OF BUSINESS</b> <b>MANUFACTURERS' SALES BRANCHES AND SALES OFFICES</b> <b>ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES</b>	<b>U.S. DEPARTMENT OF COMMERCE</b> <b>SOCIAL AND ECONOMIC STATISTICS</b> <b>ADMINISTRATION</b> <b>BUREAU OF THE CENSUS</b> 1201 East Tenth Street Jeffersonville, Indiana 47130
Please complete this form and RETURN TO:	
<b>Important - Please read</b> a. Please answer the questions on this form and return it as soon as you can, but not later than February 15, 1973. If filing by the due date causes an undue burden, a request for extension should be sent to the address shown above. b. This report should cover the calendar year 1972. If book figures are not available, carefully prepared estimates are acceptable. c. A separate report is required for each sales branch and sales office operated during 1972. Each sales office without stock should be reported separately as well as each sales branch carrying stocks of merchandise from which deliveries are made to customers. Sales branches and sales offices located at plants or administrative offices should be reported on this form where separate records are available, or if substantially accurate reports can be prepared. Employment, payroll, inventories, and operating expenses reported here should not be included in manufacturer's plant report (MC series). Sales, however, will to some extent duplicate shipments on your plant reports. d. This report should cover only the establishment identified in the address box.	
<b>KEEP THIS COPY FOR YOUR FILES</b> <b>PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS</b>	
(Please correct any error in name and address including ZIP code)	
Census use only 010 011 012 013	
<b>Item 1 - PHYSICAL LOCATION OF BUSINESS ESTABLISHMENT</b> a. The purpose of this inquiry is to determine the place (city, county, etc.) where your business is actually located (which may differ from the mailing address) so that data can be tabulated in the correct geographic area. b. Is this business establishment PHYSICALLY located at the address shown in the address box of this form? <input type="checkbox"/> YES - Answer b and c <input type="checkbox"/> NO - Enter PHYSICAL location Also answer b and c c. In what county is this business establishment PHYSICALLY located? Street name and number      State      ZIP code	
<b>Item 2 - EMPLOYER IDENTIFICATION NUMBER</b> a. Is the Employer Identification (E.I.) Number printed in the upper right of the address box the SAME as that used for this establishment on your latest 1972 Employer's Quarterly Federal Tax Return, Treasury Form 941? <input type="checkbox"/> YES <input type="checkbox"/> NO - Enter current E.I. number (9 digits) b. Did this establishment also use any other Employer Identification (E.I.) Number during 1972? <input type="checkbox"/> YES - Enter E.I. number or numbers (9 digits) <input type="checkbox"/> NO	
<b>Item 3 - PERIOD OPERATED IN 1972</b> a. Was this establishment in business at the end of 1972? <input type="checkbox"/> YES <input type="checkbox"/> NO      b. How many months during 1972 did you own this establishment? If establishment was inactive during December 1972 due to seasonal or part-time operations, answer "Yes" unless it was not owned by you at the end of the year.	
<b>Important - Please read</b> Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below: EXAMPLE: If figure is \$1,125,628.28 PREFERRED method . . . . . 1 125 628 Acceptable method . . . . . 1 125 628	
<b>Item 4 - DOLLAR VOLUME OF BUSINESS</b> Line a - Total net sales after deducting returns, allowances, and discounts, but include excise taxes and sales taxes. Include all company sales credited to the sales branch or sales office even though billings may be made from a central or district office and shipments made from a plant or central warehouse. Also include, at wholesale prices, sales or transfers to any relations you may own. Include only receipts from services rendered customers, but do not include any receipts derived from sources other than customers. Line b - Approximate percentage of sales (item 4a), if any, accounted for by goods produced by your company, your parent company, or companies corporateally affiliated with your company. Line c - Total receipts, if any, from work done by your employees at construction site including the value of any goods you put in place that became a permanent part of the structure or building. Amounts reported here should also be included in items 4a and 17.	
<b>Item 5 - PAYROLL AND EMPLOYMENT</b> Lines a and b - Report the gross earnings paid in calendar year to employees prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings all wages, salaries, commissions, dismissal pay, paid bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind. If a corporation, include salaries of officers; if an unincorporated concern, exclude payments to proprietors or partners. Line c - Be sure to include all persons on paid sick leave, paid holidays, and paid vacation during the pay period indicated, as well as those actually working. If a corporation, include officers; if an unincorporated concern, exclude proprietor or partners.	
<b>Item 6 - Not applicable to this form</b>	
<b>Item 7 - OPERATING EXPENSES AND INVENTORIES</b> Line a - Include in addition to other operating expenses, the payroll of this establishment and the pro rata share of any general office expense. Do not include the cost of merchandise. Do not include income taxes and excise taxes. Unincorporated businesses should not include withdrawals by owners or part owners. Line b - Report inventories of goods for sale at cost value rather than sale price. Include goods owned by you and consigned to others, but not goods of others in your possession. Report inventories as of the date specified, or nearest inventory date.	
<b>Item 8 - SALES BY CUSTOMER CLASSES</b> Report the approximate percentage of your 1972 sales to each of the classes of customers. If book figures are not available, entries for these lines should represent your best approximations. Percentages should add to 100. Line a - Sales to manufacturers, farm operators, and other business concerns or institutions that normally buy for business use rather than for resale of the goods in the form purchased. Line b - Sales to the Federal government (including the military, post exchanges, GSA, GPO, and similar Federal agencies) and to State and local governments. Include here only sales made by this establishment DIRECT to governmental agencies. Sales to companies which in turn sell to governmental agencies should be included under other parts of this inquiry according to the classification of the purchaser. Line c - Sales to construction contractors and builders of all types (general contractors, highway, street, and other heavy construction contractors; and special trade contractors). Line d - Sales to transportation companies, communications and other public utilities. Include sales to railroads, interurban systems, and street railway systems; highway, water, and air transportation companies; telephone and telegraph communications, radio and television broadcasting and other communication services; electric light and power - including combination electric and gas utilities. Line e - Sales to repair shops of all types. Line f - Sales to retailers of all types (retail chain organizations, independent stores, department stores, etc.). Entry should represent percentage of your sales to purchasers who normally buy for resale to home consumers or to individual users. Line g - Sales to organizations that normally purchase for resale at wholesale (including sales to purchasers who buy for resale to industrial, institutional, and similar users). Line h - Sales to household consumers and individual users (including sales to your own employees). Line i - Include sales made direct to buyers in foreign countries, or through their agents in this country. Include transfers, if any, to your own foreign branches. United States possessions should not be considered as foreign countries.	
a. TOTAL SALES and other operating receipts in 1972 b. What percent of sales represents products produced by your company? c. Did this establishment do any construction work for others in 1972? If "YES," report the value of construction receipts during 1972 a. Total ANNUAL payroll in 1972 before deductions b. Payroll for the FIRST QUARTER of 1972 c. Number of paid employees for the pay period including March 12, 1972 a. Total 1972 operating expenses, including payroll b. Did you have merchandise inventories during 1972? If "YES," what were these merchandise inventories, at cost? (1) December 31, 1972 (2) December 31, 1971 Approximate percent of total sales (item 4a) (Report in whole percentages) a. To institutional, industrial, commercial, professional and farm users b. To governmental bodies (Federal, State, and local governments) c. To contractors and builders d. To public utilities e. To repair shops f. To retailers g. To wholesale organizations h. To household consumers and individual users i. Export sales j. TOTAL (Lines a through i should add to 100)	

Pls continue on page 2

# APPENDIX C —Continued

Page 2

Item 9 — EMPLOYMENT BY PRINCIPAL ACTIVITY				Approximate number of employees					
Distribute here the employees reported in item 5 according to their principal activity during the pay period including March 12, 1972. Each employee should be counted only once, according to his or her principal activity.  <b>Line a — Selling employees</b> — All employees primarily engaged in selling merchandise or services (traveling salesmen, house or telephone salesmen, etc.)  <b>Line b — Office, clerical, warehouse employees</b> — Employees primarily engaged in office, clerical, and warehouse work for this establishment (see instruction for central administration).  <b>Line c — Central administration</b> — Employees primarily engaged in performing various management, accounting, clerical, warehousing, etc., services for other establishments of your company.				a. Selling employees	121				
				b. Office, clerical, and warehousing employees servicing this establishment	122				
				c. Central administration, storage, etc.	123				
				d. Manufacturing (processing merchandise)	124				
				e. Other (Describe)	125				
				f. TOTAL (Should equal item 5c)	125				
Item 10 — Not applicable to this form									
Item 11 — WAREHOUSE, STOCKROOM, AND OTHER INVENTORY STORAGE SPACE, DECEMBER 31, 1972				140					
<b>Line a</b> — Please indicate if this item is applicable to this establishment by marking either "YES" or "NO."  <b>Line b</b> — Exclude floor space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.  <b>Line c</b> — Net piling space is space for storing commodities — inside space measured from wall to wall and from floor to ceiling, less space for ventilation (outside of the piling), coils, aisles, posts, sprinklers, etc.				a. Did you have warehouse, stockroom, or other inventory storage space on December 31, 1972?	<input type="checkbox"/> YES — Go to b <input type="checkbox"/> NO — SKIP to item 17				
				b. Occupiable floor space (under-roof) — occupied and unoccupied — of this establishment	Square feet Mil.    Thou.    000 141				
				c. Refrigerated (net piling) space 50 degrees Fahrenheit or below in this establishment	Cubic feet Mil.    Thou.    000 142				
Items 12 through 16 — Not applicable to this form									
Item 17 — ANALYSIS OF SALES BY PRODUCTS OR COMMODITY LINES									
Enter below, the total dollar sales of each product sold by this branch or office. Products are listed (at a less detailed level) in the same sequence as they appear on the reporting forms for your manufacturing plants.									
Report value of products bought and sold as well as value of products produced by your company and sold by this establishment. If figures based on records are not available, give best possible approximations.									
Description	Can- sus use only	Estimated sales during 1972		Code	Description	Can- sus use only	Estimated sales during 1972		Code
	200	201	Mil.    Thou.    000			200	201	Mil.    Thou.    000	
Electrical industrial equipment					27. Radio, TV, commercial equipment				
1. Equipment for testing electrical, radio, communications circuits, motors	7010			36112	28. Speaker systems, microphones, home, commercial sound equipment	7380			36819
2. Other electrical measuring instruments	7020			36111, 36113	29. Phonograph records	7410			36820
3. Power, distribution transformers	7030			36122	30. Telephone switching, switchboard equipment	7420			36811
4. Other transformers	7040			36121, 36123	31. Other telephone, telegraph (wire), apparatus, equipment, components	7430			36813
	200	201			32. Radio, TV, communications equipment	7440			36829
5. Switchgear, ducts, relays	7050			36131, 36133, 36134, 36135, 36137	Other electric equipment	200	201		
6. Circuit breakers	7060			36132, 36135	33. Electron tubes, receiving types	7450			36710
7. Fractional horsepower motors	7070			36211	34. Cathode ray picture tubes	7460			36720
8. Integral horsepower motors, generators	7080			36212	35. Transmitting industrial, special purpose electron tubes (except X-ray)	7470			36730
9. Motor-generator sets, other rotating equipment	7110			36215	36. Transistors, rectifiers, semiconductor devices	7480			36742, 36743, 36745
10. Other motors, generators	7120			36213, 36214	37. Electronic components, n.e.c.	7510			36741, 36746, 36748
11. Parts, supplies for motors, generators	7130			36216	Other electric machinery, equipment				
12. General industrial power circuit devices, controls	7140			36220	38. Storage batteries	7520			36749, 36752
13. Welding apparatus	7150			36230-36233	39. Primary batteries, dry and wet	7530			36750
14. Carbon and graphite products	7160			36240	40. X-ray therapeutic apparatus	7540			36756
15. Electric industrial goods, n.e.c.	7170			36290-36293	41. Engine electrical equipment	7550			36757, 36758
	200	201			42. Lamp bulb components, other electrical products	7560			36760
Electrical appliances					43. Appliance wire, cord, and flexible cord sets (except those in nonferrous wire drawing plants)	7570			36766
16. Nonconsole radios (portable, table model, etc.) and record players	7290			XXX	44. Copper, copper-base alloy wire, bare tinned for electrical transmissions	7580			36772
17. Major appliances, television sets, console radios and record players					45. Communication wire, cable	7610			36774
a. Electric home kitchen equipment, parts	7301			XXX	46. Magnet wire	7620			36777
b. Electric home laundry equipment	7302			XXX	47. Power wire, cable	7630			36779
c. Television sets	7303			XXX		200	201		
d. Console radios and record players	7304			XXX	48. Other drawn, insulated nonferrous wire	7640			36781, 36782, 36783, 36784, 36785, 36786, 36787
e. Other major appliances (including gas)	7305			XXX	49. Miscellaneous lines of merchandise (Specify)				
f. Total major appliances, etc. (Sum of lines a through e)	7300			XXX	a.	9761			XXX
18. Electric housewares, small appliances, parts and supplies	7210			XXX	b.	9762			XXX
19. Room air conditioners	6800			XXX	c.	9763			XXX
	200	201			d. Total miscellaneous merchandise (Sum of lines a through c.)	9760			XXX
Lighting fixtures, current carrying devices					49. Receipts from services and sources other than the sale of merchandise	9930			XXX
20. Electric lamps	7260			36410		200	201		
21. Residential type electric fixtures	7270			36421, 36422	50. TOTAL SALES IN 1972 (Sum of lines 1 through 49 should be the same as item 6a.)	9990			XXX
22. Commercial, institutional, industrial type electrical fixtures	7280			36422, 36423					
23. Vehicular lighting equipment, electrical	7310			36424					
24. Other electric and nonelectric lighting equipment	7320			36425, 36426					
25. Current carrying wiring devices	7330			36430					
26. Noncurrent carrying devices	7340			36440-36443					

FORM CB-512

Please continue on page 3

# APPENDIX C—Continued

Page 3

U.S. DEPARTMENT OF COMMERCE  
SOCIAL AND ECONOMIC STATISTICS ADMINISTRATION  
BUREAU OF THE CENSUS

**1972 CENSUS OF BUSINESS**  
ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES—Continued

Please enter your Census  
File Number

**Item 18** — Not applicable to this form

**Item 19 — TRUCKS, TRUCK TRACTORS, AND TRUCK TRAILERS OPERATED, MID-DECEMBER 1972**

Line a — Please indicate if this item is applicable to this establishment by marking either "YES" or "NO."

Line b — Include all street and highway-type vehicles owned or leased (without drivers). Exclude vehicles held for sale and any vehicles leased by you to others.

208 ☐ YES — Go to b  
☐ NO — SKIP to item 21

**a. Did this establishment operate any trucks, truck tractors, or truck trailers mid-December 1972?**

b. Number and type of vehicles operated mid-December 1972		Total	Owned	Leased (without drivers)
Trucks, by body type	(1) Closed top vans	210	211	212
	(2) Open top vans, platform, stake, or other open top trucks	213	214	215
	(3) Pick-up, standard panel, or other light delivery trucks	216	217	218
	(4) Dump truck	219	220	221
	(5) Other over-the-road trucks	222	223	224
Truck tractors and trailers	(6) Truck tractors	225	226	227
	(7) Semi-trailers and full trailers	228	229	230

**Item 20** — Not applicable to this form

Remarks (This space may be used for any explanations that may be helpful in understanding your report.)

**Item 21**  
**CERTIFICATION**

Name of person to contact regarding this report	Address (Number, street, city, State, ZIP code)	Telephone
		Area code    Number    Ext.
This report is substantially accurate and covers the period from _____ to _____		
Signature of authorized person	Title	Date





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## APPENDIX D. Authority for Census: Title 13, United States Code

*(Codification of August 1954 amended by Acts of August 1957, September 1960, and June and October 1962, and of August 1964)*

### **Collection and publication:**

#### **Five-year periods (131)**

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses... in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

#### **Geographic scope of censuses (191a)**

Each of the censuses authorized by this chapter (other than censuses of population) shall include each State, the District of Columbia, Alaska, Hawaii, the Virgin Islands, Guam, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Censuses of population shall include all geographic areas referred to in the preceding sentence. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

#### **Wrongful disclosure of information (214)**

Whoever, being an employee referred to in subchapter II of chapter 1 of this title, having taken and subscribed the oath of

office, publishes or communicates, without the written authority of the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, any information coming into his possession by reason of his employment under the provisions of this title, shall be fined not more than \$1,000 or imprisoned not more than two years, or both.

#### **Failure to answer questions affecting companies, businesses, religious bodies, and other organizations: False answers (224)**

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by certified mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such questions, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.





## APPENDIX E. Standard Metropolitan Statistical Areas

(Titles and definitions of the two standard consolidated areas and the 263 standard metropolitan statistical areas in the United States established by the Office of Management and Budget as of April 27, 1973)

SMSA name	SMSA definition	Changes for 1972
CHICAGO, IL-NORTHWESTERN INDIANA STANDARD CONSOLIDATED AREA	CHICAGO, IL GARY-HAMMOND-EAST CHICAGO, IN	
NEW YORK, NY-NORTHEASTERN NEW JERSEY STANDARD CONSOLIDATED AREA	NEW YORK, NY NASSAU-SUFFOLK, NY NEWARK, NJ JERSEY CITY, NJ PATERSON-CLIFTON-PASSAIC, NJ MIDDLESEX CO., NJ SOMERSET CO., NJ	
ABILENE, TX	CALLAHAN CO., TX JONES CO., TX TAYLOR CO., TX	ADDED CALLAHAN COUNTY
AKRON, OH	PORTAGE CO., OH SUMMIT CO., OH	
ALBANY, GA	DOUGHERTY CO., GA LEE CO., GA	ADDED LEE COUNTY
ALBANY-SCHENECTADY-TROY, NY	ALBANY CO., NY MONTGOMERY CO., NY RENSSELAER CO., NY SARATOGA CO., NY SCHENECTADY CO., NY	ADDED MONTGOMERY COUNTY
ALBUQUERQUE, NM	BERNALILLO CO., NM SANDOVAL CO., NM	ADDED SANDOVAL COUNTY
ALEXANDRIA, LA	GRANT PARISH, LA RAPIDES PARISH, LA	NEW SMSA
ALLENTOWN-BETHLEHEM-EASTON, PA-NJ	WARREN CO., NJ CARBON CO., PA LEHIGH CO., PA NORTHAMPTON CO., PA	ADDED CARBON COUNTY, PA
ALTOONA, PA	BLAIR CO., PA	
AMARILLO, TX	POTTER CO., TX RANDALL CO., TX	
ANAHEIM-SANTA ANA-GARDEN GROVE, CA	ORANGE CO., CA	
ANCHORAGE, AK	ANCHORAGE DIVISION, AK	NEW SMSA
ANDERSON, IN	MADISON CO., IN	
ANN ARBOR, MI	WASHTENAW CO., MI	
APPLETON-OSHKOSH, WI	CALUMET CO., WI OUTAGAMIE CO., WI WINNEBAGO CO., WI	NEW SMSA
ASHEVILLE, NC	BUNCOMBE CO., NC MADISON CO., NC	ADDED MADISON COUNTY
ATLANTA, GA	BUTTS CO., GA CHEROKEE CO., GA CLAYTON CO., GA COBB CO., GA DE KALB CO., GA DOUGLAS CO., GA FAYETTE CO., GA FORSYTH CO., GA FULTON CO., GA GWINNETT CO., GA HENRY CO., GA NEWTON CO., GA PAULDING CO., GA ROCKDALE CO., GA WALTON CO., GA	ADDED BUTTS, CHEROKEE, DOUGLAS, FAYETTE, FORSYTH, HENRY, NEWTON, PAULDING, ROCKDALE, AND WALTON COUNTIES
ATLANTIC CITY, NJ	ATLANTIC CO., NJ	
AUGUSTA, GA-SC	AIKEN CO., SC COLUMBIA CO., GA RICHMOND CO., GA	ADDED COLUMBIA COUNTY IN GA

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
AUSTIN, TX	HAYS CO.,TX TRAVIS CO.,TX	ADDEO HAYS COUNTY
BAKERSFIELD, CA	KERN CO.,CA	
BALTIMORE, MD	ANNE ARUNDEL CO.,MD BALTIMORE CO.,MD CARROLL CO.,MD HARFORD CO.,MD HOWARD CO.,MD BALTIMORE CITY,MD	
BATON ROUGE, LA	ASCENSION PARISH,LA EAST BATON ROUGE PARISH,LA LIVINGSTON PARISH,LA WEST BATON ROUGE PARISH,LA	ADDEO ASCENSION, LIVINGSTON, AND WEST BATON ROUGE PARISHES
BATTLE CREEK, MI	BARRY CO.,MI CALHOUN CO.,MI	NEW SMSA
BAY CITY, MI	BAY CO.,MI	
BEAUMONT-PORT ARTHUR-ORANGE, TX	HARDIN CO.,TX JEFFERSON CO.,TX ORANGE CO.,TX	AOOEO HARDIN COUNTY
BILLINGS, MT	YELLOWSTONE CO.,MT	
BILOXI-GULFPORT, MS	HANCOCK CO.,MS HARRISON CO.,MS STONE CO.,MS	ADDEO HANCOCK AND STONE COUNTIES
BINGHAMTON, NY-PA	BROOME CO.,NY TIOGA CO.,NY SUSQUEHANNA CO.,PA	
BIRMINGHAM, AL	JEFFERSON CO.,AL ST CLAIR CO.,AL SHELBY CO.,AL WALKER CO.,AL	ADDEO ST. CLAIR COUNTY
BLOOMINGTON-NORMAL, IL	MC LEAN CO.,IL	
BOISE CITY, ID	ADA CO.,ID	
BOSTON, MA	ESSEX COUNTY,MA (PART) BEVERLY CITY,MA BOXFORD TOWN,MA DANVERS TOWN,MA HAMILTON TOWN,MA LYNN CITY,MA LYNNFIELD TOWN,MA MANCHESTER TOWN,MA MARBLEHEAD TOWN,MA MIDDLETON TOWN,MA NAHANT TOWN,MA PEABODY CITY,MA SALEM CITY,MA SAUGUS TOWN,MA SWAMPSCOTT TOWN,MA TOPSFIELD TOWN,MA WENHAM TOWN,MA  MIDDLESEX COUNTY,MA (PART) ACTON TOWN,MA ARLINGTON TOWN,MA ASHLAND TOWN,MA BEDFORD TOWN,MA BELMONT TOWN,MA BOXBOROUGH TOWN,MA BURLINGTON TOWN,MA CAMBRIDGE CITY,MA CARLISLE TOWN,MA CONCORD TOWN,MA EVERETT CITY,MA FRAMINGHAM TOWN,MA HOLLISTON TOWN,MA LEXINGTON TOWN,MA LINCOLN TOWN,MA MALDEN CITY,MA MEDFORD CITY,MA MELROSE CITY,MA NATICK TOWN,MA NEWTON CITY,MA	AOOEO BOXFORD TOWN IN ESSEX COUNTY, ACTON, BOXBOROUGH, CARLISLE, AND HOLLISTON TOWNS IN MIDDLESEX COUNTY, BELLINGHAM, FOXBOROUGH, FRANKLIN, MEOWAY, STOUGHTON, AND WRENTHAM TOWNS IN NORFOLK COUNTY, AND ABINGTON, HANSON, AND KINGSTON TOWNS IN PLYMOUTH COUNTY

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
BOSTON, MA--CONTINUED	<p>MIDDLESEX COUNTY, MA (PART)--CONTINUED</p> <p>NORTH READING TOWN, MA</p> <p>READING TOWN, MA</p> <p>SHERBORN TOWN, MA</p> <p>SOMERVILLE CITY, MA</p> <p>STONEHAM TOWN, MA</p> <p>SUDBURY TOWN, MA</p> <p>WAKEFIELD TOWN, MA</p> <p>WALTHAM CITY, MA</p> <p>WATERTOWN TOWN, MA</p> <p>WAYLAND TOWN, MA</p> <p>WESTON TOWN, MA</p> <p>WILMINGTON TOWN, MA</p> <p>WINCHESTER TOWN, MA</p> <p>WOBURN CITY, MA</p> <p>NORFOLK COUNTY, MA (PART)</p> <p>BELLINGHAM TOWN, MA</p> <p>BRAINTREE TOWN, MA</p> <p>BROOKLINE TOWN, MA</p> <p>CANTON TOWN, MA</p> <p>COHASSET TOWN, MA</p> <p>DEDHAM TOWN, MA</p> <p>DOVER TOWN, MA</p> <p>FOXBOROUGH TOWN, MA</p> <p>FRANKLIN TOWN, MA</p> <p>HOLBROOK TOWN, MA</p> <p>MEDFIELD TOWN, MA</p> <p>MEDWAY TOWN, MA</p> <p>MILLIS TOWN, MA</p> <p>MILTON TOWN, MA</p> <p>NEEDHAM TOWN, MA</p> <p>NORFOLK TOWN, MA</p> <p>NORWOOD TOWN, MA</p> <p>QUINCY CITY, MA</p> <p>RANDOLPH TOWN, MA</p> <p>SHARON TOWN, MA</p> <p>STOUGHTON TOWN, MA</p> <p>WALPOLE TOWN, MA</p> <p>WELLESLEY TOWN, MA</p> <p>WESTWOOD TOWN, MA</p> <p>WEYMOUTH TOWN, MA</p> <p>WRENTHAM TOWN, MA</p> <p>PLYMOUTH COUNTY, MA (PART)</p> <p>ABINGTON TOWN, MA</p> <p>DUXBURY TOWN, MA</p> <p>HANOVER TOWN, MA</p> <p>HANSON TOWN, MA</p> <p>HINGHAM TOWN, MA</p> <p>HULL TOWN, MA</p> <p>KINGSTON TOWN, MA</p> <p>MARSHFIELD TOWN, MA</p> <p>NORWELL TOWN, MA</p> <p>PEMBROKE TOWN, MA</p> <p>ROCKLAND TOWN, MA</p> <p>SCITUATE TOWN, MA</p> <p>SUFFOLK COUNTY, MA</p> <p>BOSTON CITY, MA</p> <p>CHELSEA CITY, MA</p> <p>REVERE CITY, MA</p> <p>WINTHROP TOWN, MA</p>	
BRIDGEPORT, CT	<p>FAIRFIELD COUNTY, CT (PART)</p> <p>BRIDGEPORT CITY, CT</p> <p>EASTON TOWN, CT</p> <p>FAIRFIELD TOWN, CT</p> <p>MONROE TOWN, CT</p> <p>SHELTON CITY, CT</p> <p>STRATFORD TOWN, CT</p> <p>TRUMBULL TOWN, CT</p> <p>NEW HAVEN COUNTY, CT (PART)</p> <p>DERBY CITY, CT</p> <p>MILFORD CITY, CT</p>	ADDED DERBY CITY IN NEW HAVEN COUNTY
BRISTOL, CT	<p>HARTFORD COUNTY, CT (PART)</p> <p>BRISTOL CITY, CT</p> <p>BURLINGTON TOWN, CT</p> <p>LITCHFIELD COUNTY, CT (PART)</p> <p>PLYMOUTH TOWN, CT</p>	NEW SMSA



# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
BROCKTON, MA	BRISTOL COUNTY, MA (PART) EASTON TOWN, MA  NORFOLK COUNTY, MA (PART) AVON TOWN, MA  PLYMOUTH COUNTY, MA (PART) BRIDGEWATER TOWN, MA BROCKTON CITY, MA EAST BRIDGEWATER TOWN, MA HALIFAX TOWN, MA WEST BRIDGEWATER TOWN, MA WHITMAN TOWN, MA	ADDED HALIFAX TOWN IN PLYMOUTH COUNTY, DROPPED STOUGHTON TOWN IN NORFOLK COUNTY, AND ABINGTON AND HANSON TOWNS IN PLYMOUTH COUNTY
BROWNSVILLE-HARLINGEN-SAN BENITO, TX	CAMERON CO., TX	
BRYAN-COLLEGE STATION, TX	BRAZOS CO., TX	NEW SMSA
BUFFALO, NY	ERIE CO., NY NIAGARA CO., NY	
BURLINGTON, NC	ALAMANCE CO., NC	NEW SMSA
CANTON, OH	CARROLL CO., OH STARK CO., OH	ADDED CARROLL COUNTY
CEDAR RAPIDS, IA	LINN CO., IA	
CHAMPAIGN-URBANA-RANTOUL, IL	CHAMPAIGN CO., IL	CHAMPAIGN-URBANA SMSA RETITLED AS CHAMPAIGN-URBANA-RANTOUL SMSA
CHARLESTON, SC	BERKELEY CO., SC CHARLESTON CO., SC DORCHESTER CO., SC	ADDED DORCHESTER COUNTY
CHARLESTON, WV	KANAWHA CO., WV PUTNAM CO., WV	ADDED PUTNAM COUNTY
CHARLOTTE-GASTONIA, NC	GASTON CO., NC MECKLENBURG CO., NC UNION CO., NC	COMBINED CHARLOTTE SMSA WITH GASTONIA SMSA
CHATTANOOGA, TN-GA	CATOOSA CO., GA DADE CO., GA WALKER CO., GA HAMILTON CO., TN MARION CO., TN SEQUATCHIE CO., TN	ADDED MARION, SEQUATCHIE, CATOOSA, AND DADE COUNTIES
CHICAGO, IL	COOK CO., IL DU PAGE CO., IL KANE CO., IL LAKE CO., IL MC HENRY CO., IL WILL CO., IL	
CINCINNATI, OH-KY-IN	CLERMONT CO., OH HAMILTON CO., OH WARREN CO., OH DEARBORN CO., IN BOONE CO., KY CAMPBELL CO., KY KENTON CO., KY	
CLEVELAND, OH	CUYAHOGA CO., OH GEAUGA CO., OH LAKE CO., OH MEDINA CO., OH	
COLORADO SPRINGS, CO	EL PASO CO., CO TELLER CO., CO	ADDED TELLER COUNTY
COLUMBIA, MO	BOONE CO., MO	NEW SMSA
COLUMBIA, SC	LEXINGTON CO., SC RICHLAND CO., SC	
COLUMBUS, GA-AL	CHATTAHOOCHEE CO., GA COLUMBUS CITY, GA RUSSELL CO., AL	CONSOLIDATED COLUMBUS CITY AND MUSCOGEE COUNTY INTO COLUMBUS CITY

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
COLUMBUS, OH	DELAWARE CO., OH FAIRFIELD CO., OH FRANKLIN CO., OH MADISON CO., OH PICKAWAY CO., OH	ADDED FAIRFIELD AND MADISON COUNTIES
CORPUS CHRISTI, TX	NUECES CO., TX SAN PATRICIO CO., TX	
DALLAS-FORT WORTH, TX	COLLIN CO., TX DALLAS CO., TX DENTON CO., TX ELLIS CO., TX HOOD CO., TX JOHNSON CO., TX KAUFMAN CO., TX PARKER CO., TX ROCKWALL CO., TX TARRANT CO., TX WISE CO., TX	COMBINED DALLAS SMSA WITH FORT WORTH SMSA AND ADDED HOOD, PARKER, AND WISE COUNTIES
DANBURY, CT	FAIRFIELD COUNTY, CT (PART) BETHEL TOWN, CT BROOKFIELD TOWN, CT DANBURY CITY, CT NEW FAIRFIELD TOWN, CT NEWTOWN TOWN, CT REDDING TOWN, CT  LITCHFIELD COUNTY, CT (PART) NEW MILFORD TOWN, CT	NEW SMSA
DAVENPORT-ROCK ISLAND-MOLINE, IA-IL	HENRY CO., IL ROCK ISLAND CO., IL SCOTT CO., IA	
DAYTON, OH	GREENE CO., OH MIAMI CO., OH MONTGOMERY CO., OH PREBLE CO., OH	
DAYTONA BEACH, FL	VOLUSIA CO., FL	NEW SMSA
DECATUR, IL	MACON CO., IL	
DENVER-Boulder, CO	ADAMS CO., CO ARAPAHOE CO., CO BOULDER CO., CO DENVER CO., CO DOUGLAS CO., CO GILPIN CO., CO JEFFERSON CO., CO	ADDED DOUGLAS AND GILPIN COUNTIES
DES MOINES, IA	POLK CO., IA WARREN CO., IA	ADDED WARREN COUNTY
DETROIT, MI	LAPEER CO., MI LIVINGSTON CO., MI MACOMB CO., MI OAKLAND CO., MI ST CLAIR CO., MI WAYNE CO., MI	ADDED LAPEER, LIVINGSTON, AND ST. CLAIR COUNTIES
DUBUQUE, IA	DUBUQUE CO., IA	
DULUTH-SUPERIOR, MN-WI	DOUGLAS CO., WI ST LOUIS CO., MN	
EL PASO, TX	EL PASO CO., TX	
ELMIRA, NY	CHEMUNG CO., NY	NEW SMSA
ERIE, PA	ERIE CO., PA	
EUGENE-SPRINGFIELD, OR	LANE CO., OR	
EVANSVILLE, IN-KY	GIBSON CO., IN POSEY CO., IN VANDERBURGH CO., IN WARRICK CO., IN HENDERSON CO., KY	ADDED GIBSON AND POSEY COUNTIES

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
FALL RIVER, MA-RI	BRISTOL COUNTY, MA (PART) DIGHTON TOWN, MA FALL RIVER CITY, MA SOMERSET TOWN, MA SWANSEA TOWN, MA WESTPORT TOWN, MA  NEWPORT COUNTY, RI (PART) LITTLE COMPTON TOWN, RI PORTSMOUTH TOWN, RI TIVERTON TOWN, RI	ADDED DIGHTON TOWN IN BRISTOL COUNTY, MA, AND LITTLE COMPTON AND PORTSMOUTH TOWNS IN NEWPORT COUNTY, RI
FARGO-MOORHEAD, ND-MN	CLAY CO., MN CASS CO., ND	
FAYETTEVILLE, NC	CUMBERLAND CO., NC	
FAYETTEVILLE-SPRINGDALE, AR	BENTON CO., AR WASHINGTON CO., AR	NEW SMSA
FITCHBURG-LEOMINSTER, MA	MIDDLESEX COUNTY, MA (PART) SHIRLEY TOWN, MA TOWNSEND TOWN, MA  WORCESTER COUNTY, MA (PART) FITCHBURG CITY, MA LEOMINSTER CITY, MA LUNENBURG TOWN, MA WESTMINSTER TOWN, MA	
FLINT, MI	GENESEE CO., MI SHIAWASSEE CO., MI	ADDED SHIAWASSEE COUNTY, DROPPED LAPEER COUNTY
FLORENCE, AL	COLBERT CO., AL LAUDERDALE CO., AL	NEW SMSA
FORT LAUDERDALE-HOLLYWOOD, FL	BROWARD CO., FL	
FORT MYERS, FL	LEE CO., FL	NEW SMSA
FORT SMITH, AR-OK	CRAWFORD CO., AR SEBASTIAN CO., AR LE FLORE CO., OK SEQUOYAH CO., OK	
FORT WAYNE, IN	ADAMS CO., IN ALLEN CO., IN DE KALB CO., IN WELLS CO., IN	ADDED ADAMS, DE KALB, AND WELLS COUNTIES
FRESNO, CA	FRESNO CO., CA	
GADSDEN, AL	ETOWAH CO., AL	
GAINESVILLE, FL	ALACHUA CO., FL	NEW SMSA
GALVESTON-TEXAS CITY, TX	GALVESTON CO., TX	
GARY-HAMMOND-EAST CHICAGO, IN	LAKE CO., IN PORTER CO., IN	
GRAND RAPIDS, MI	KENT CO., MI OTTAWA CO., MI	
GREAT FALLS, MT	CASCADE CO., MT	
GREEN BAY, WI	BROWN CO., WI	
GREENSBORO--WINSTON-SALEM--HIGH POINT, NC	DAVIDSON CO., NC FORSYTH CO., NC GUILFORD CO., NC RANDOLPH CO., NC STOKES CO., NC YADKIN CO., NC	ADDED DAVIDSON AND STOKES COUNTIES
GREENVILLE-SPARTANBURG, SC	GREENVILLE CO., SC PICKENS CO., SC SPARTANBURG CO., SC	GREENVILLE SMSA RETITLED AS GREENVILLE- SPARTANBURG SMSA, ADDED SPARTANBURG COUNTY
HAMILTON-MIDDLETOWN, OH	BUTLER CO., OH	
HARRISBURG, PA	CUMBERLAND CO., PA DAUPHIN CO., PA PERRY CO., PA	



# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
HARTFORD, CT	<p>HARTFORD COUNTY, CT (PART)            AVON TOWN, CT            BLOOMFIELD TOWN, CT            CANTON TOWN, CT            EAST GRANBY TOWN, CT            EAST HARTFORD TOWN, CT            EAST WINDSOR TOWN, CT            ENFIELD TOWN, CT            FARMINGTON TOWN, CT            GLASTONBURY TOWN, CT            GRANBY TOWN, CT            HARTFORD CITY, CT            MANCHESTER TOWN, CT            MARLBOROUGH TOWN, CT            NEWINGTON TOWN, CT            ROCKY HILL TOWN, CT            SIMSBURY TOWN, CT            SOUTH WINDSOR TOWN, CT            SUFFIELD TOWN, CT            WEST HARTFORD TOWN, CT            WETHERSFIELD TOWN, CT            WINDSOR LOCKS TOWN, CT            WINDSOR TOWN, CT</p> <p>LITCHFIELD COUNTY, CT (PART)            NEW HARTFORD TOWN, CT</p> <p>MIDDLESEX COUNTY, CT (PART)            CROMWELL TOWN, CT            EAST HAMPTON TOWN, CT            PORTLAND TOWN, CT</p> <p>NEW LONDON COUNTY, CT (PART)            COLCHESTER TOWN, CT</p> <p>TOLLAND COUNTY, CT (PART)            ANDOVER TOWN, CT            BOLTON TOWN, CT            COLUMBIA TOWN, CT            COVENTRY TOWN, CT            ELLINGTON TOWN, CT            HEBRON TOWN, CT            STAFFORD TOWN, CT            TOLLAND TOWN, CT            VERNON TOWN, CT            WILLINGTON TOWN, CT</p>	<p>ADDED MARLBOROUGH TOWN IN HARTFORD COUNTY, NEW HARTFORD TOWN IN LITCHFIELD COUNTY, EAST HAMPTON AND PORTLAND TOWNS IN MIDDLESEX COUNTY, COLCHESTER TOWN IN NEW LONDON COUNTY, AND COLUMBIA, HEBRON, STAFFORD, TOLLAND, AND WILLINGTON TOWNS IN TOLLAND COUNTY</p>
HONOLULU, HI	HONOLULU CO., HI	
HOUSTON, TX	<p>BRAZORIA CO., TX            FORT BEND CO., TX            HARRIS CO., TX            LIBERTY CO., TX            MONTGOMERY CO., TX            WALLER CO., TX</p>	ADDED WALLER COUNTY
HUNTINGTON-ASHLAND, WV-KY-OH	<p>LAWRENCE CO., OH            CABELL CO., WV            WAYNE CO., WV            BOYD CO., KY            GREENUP CO., KY</p>	ADDED GREENUP COUNTY
HUNTSVILLE, AL	<p>LIMESTONE CO., AL            MADISON CO., AL            MARSHALL CO., AL</p>	ADDED MARSHALL COUNTY
INDIANAPOLIS, IN	<p>BOONE CO., IN            HAMILTON CO., IN            HANCOCK CO., IN            HENDRICKS CO., IN            JOHNSON CO., IN            MARION CO., IN            MORGAN CO., IN            SHELBY CO., IN</p>	
JACKSON, MI	JACKSON CO., MI	
JACKSON, MS	<p>HINDS CO., MS            RANKIN CO., MS</p>	
JACKSONVILLE, FL	<p>BAKER CO., FL            CLAY CO., FL            DUVAL CO., FL            NASSAU CO., FL            ST JOHNS CO., FL</p>	ADDED BAKER, CLAY, NASSAU, AND ST. JOHN'S COUNTIES

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
JERSEY CITY, NJ	HUDSON CO., NJ	
JOHNSTOWN, PA	CAMBRIA CO., PA SOMERSET CO., PA	
KALAMAZOO-PORTAGE, MI	KALAMAZOO CO., MI VAN BUREN CO., MI	KALAMAZOO SMSA RETITLED AS KALAMAZOO- PORTAGE SMSA AND ADDED VAN BUREN COUNTY
KANSAS CITY, MO-KS	CASS CO., MO CLAY CO., MO JACKSON CO., MO PLATTE CO., MO RAY CO., MO JOHNSON CO., KS WYANDOTTE CO., KS	ADDED RAY COUNTY
KENOSHA, WI	KENOSHA CO., WI	
KILLEEN-TEMPLE, TX	BELL CO., TX CORYELL CO., TX	NEW SMSA
KINGSPORT-BRISTOL, TN-VA	SCOTT CO., VA WASHINGTON CO., VA BRISTOL CITY, VA HAWKINS CO., TN SULLIVAN CO., TN	NEW SMSA
KNOXVILLE, TN	ANDERSON CO., TN BLOUNT CO., TN KNOX CO., TN UNION CO., TN	
LA CROSSE, WI	LA CROSSE CO., WI	NEW SMSA
LAFAYETTE, LA	LAFAYETTE PARISH, LA	
LAFAYETTE-WEST LAFAYETTE, IN	TIPPECANOE CO., IN	
LAKE CHARLES, LA	CALCASIEU PARISH, LA	
LAKELAND-WINTER HAVEN, FL	POLK CO., FL	NEW SMSA
LANCASTER, PA	LANCASTER CO., PA	
LANSING-EAST LANSING, MI	CLINTON CO., MI EATON CO., MI INGHAM CO., MI IONIA CO., MI	ADDED IONIA COUNTY
LAREDO, TX	WEBB CO., TX	
LAS VEGAS, NV	CLARK CO., NV	
LAWRENCE-HAVERHILL, MA-NH	ROCKINGHAM COUNTY, NH (PART) ATKINSON TOWN, NH HAMPSTEAD TOWN, NH KINGSTON TOWN, NH NEWTON TOWN, NH PLAISTOW TOWN, NH SALEM TOWN, NH WINDHAM TOWN, NH ESSEX COUNTY, MA (PART) AMESBURY TOWN, MA ANDOVER TOWN, MA GEORGETOWN TOWN, MA GROVELAND TOWN, MA HAVERHILL CITY, MA LAWRENCE CITY, MA MERRIMAC TOWN, MA METHUEN TOWN, MA NORTH ANDOVER TOWN, MA SALISBURY TOWN, MA WEST NEWBURY TOWN, MA	ADDED ATKINSON, HAMPSTEAD, KINGSTON, AND WINDHAM TOWNS IN ROCKINGHAM COUNTY AND AMESBURY AND SALISBURY TOWNS IN ESSEX COUNTY
LAWTON, OK	COMANCHE CO., OK	
LEWISTON-AUBURN, ME	ANDROSCOGGIN COUNTY, ME (PART) AUBURN CITY, ME LEWISTON CITY, ME LISBON TOWN, ME	

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
LEXINGTON, KY	BOURBON CO.,KY CLARK CO.,KY FAYETTE CO.,KY JESSAMINE CO.,KY SCOTT CO.,KY WOODFORD CO.,KY	ADDED BOURBON, CLARK, JESSAMINE, SCOTT, AND WOODFORD COUNTIES
LIMA, OH	ALLEN CO.,OH AUGLAIZE CO.,OH PUTNAM CO.,OH VAN WERT CO.,OH	ADDED AUGLAIZE COUNTY
LINCOLN, NE	LANCASTER CO.,NE	
LITTLE ROCK-NORTH LITTLE ROCK, AR	PULASKI CO.,AR SALINE CO.,AR	
LONG BRANCH-ASBURY PARK, NJ	MONMOUTH CO.,NJ	NEW SMSA
LORAIN-ELYRIA, OH	LORAIN CO.,OH	
LOS ANGELES-LONG BEACH, CA	LOS ANGELES CO.,CA	
LOUISVILLE, KY-IN	CLARK CO.,IN FLOYD CO.,IN BULLITT CO.,KY JEFFERSON CO.,KY OLDHAM CO.,KY	ADDED BULLITT AND OLDHAM
LOWELL, MA-NH	HILLSBOROUGH COUNTY,NH (PART) PELHAM TOWN,NH  MIDDLESEX COUNTY,MA (PART) BILLERICA TOWN,MA CHELMSFORD TOWN,MA DRACUT TOWN,MA LOWELL CITY,MA TEWKSBURY TOWN,MA TYNGSBOROUGH TOWN,MA WESTFORD TOWN,MA	ADDED PELHAM TOWN IN HILLSBOROUGH COUNTY
LUBBOCK, TX	LUBBOCK CO.,TX	
LYNCHBURG, VA	AMHERST CO.,VA APPOMATTOX CO.,VA CAMPBELL CO.,VA LYNCHBURG CITY,VA	ADDED APPOMATTOX COUNTY
MACON, GA	BIBB CO.,GA HOUSTON CO.,GA JONES CO.,GA TWIGGS CO.,GA	ADDED JONES AND TWIGGS COUNTIES
MADISON, WI	DANE CO.,WI	
MANCHESTER, NH	HILLSBOROUGH COUNTY,NH (PART) BEDFORD TOWN,NH GOFFSTOWN TOWN,NH MANCHESTER CITY,NH  MERRIMACK COUNTY,NH (PART) ALLENSTOWN TOWN,NH HOOKSETT TOWN,NH PEMBROKE TOWN,NH  ROCKINGHAM COUNTY,NH (PART) DERRY TOWN,NH LONDONDERRY TOWN,NH	ADDED ALLENSTOWN AND PEMBROKE TOWNS IN MERRIMACK COUNTY AND DERRY AND LONDON- DERRY TOWN IN ROCKINGHAM COUNTY
MANSFIELD, OH	RICHLAND CO.,OH	
MCALLEN-PHARR-EDINBURG, TX	HIDALGO CO.,TX	
MELBOURNE-TITUSVILLE-COCOA, FL	BREVARD CO.,FL	NEW SMSA
MEMPHIS, TN-AR-MS	SHELBY CO.,TN TIPTON CO.,TN DE SOTO CO.,MS CRITTENDEN CO.,AR	TIPTON COUNTY AND DE SOTO COUNTY
MERIDEN, CT	NEW HAVEN COUNTY,CT (PART) MERIDEN CITY,CT	
MIAMI, FL	DADE CO.,FL	



## APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
MIDLAND, TX	MIDLAND CO.,TX	
MILWAUKEE, WI	MILWAUKEE CO.,WI OZAUKEE CO.,WI WASHINGTON CO.,WI WAUKESHA CO.,WI	
MINNEAPOLIS-ST PAUL, MN-WI	ST CROIX CO.,WI ANOKA CO.,MN CARVER CO.,MN CHISAGO CO.,MN DAKOTA CO.,MN HENNEPIN CO.,MN RAMSEY CO.,MN SCOTT CO.,MN WASHINGTON CO.,MN WRIGHT CO.,MN	ADDED CARVER, CHISAGO, SCOTT, AND WRIGHT COUNTIES IN MN., AND ST. CROIX COUNTY IN WI
MOBILE, AL	BALDWIN CO.,AL MOBILE CO.,AL	
MODESTO, CA	STANISLAUS CO.,CA	NEW SMSA
MONROE, LA	OUACHITA PARISH,LA	
MONTGOMERY, AL	AUTAUGA CO.,AL ELMORE CO.,AL MONTGOMERY CO.,AL	ADDED AUTAUGA COUNTY
MUNCIE, IN	DELAWARE CO.,IN	
MUSKEGON-MUSKEGON HEIGHTS, MI	MUSKEGON CO.,MI OCEANA CO.,MI	ADDED OCEANA COUNTY
NASHUA, NH	HILLSBOROUGH COUNTY,NH (PART) AMHERST TOWN,NH HUDSON TOWN,NH MERRIMACK TOWN,NH MILFORD TOWN,NH NASHUA CITY,NH	NEW SMSA
NASHVILLE-DAVIDSON, TN	CHEATHAM CO.,TN DAVIDSON CO.,TN DICKSON CO.,TN ROBERTSON CO.,TN RUTHERFORD CO.,TN SUMNER CO.,TN WILLIAMSON CO.,TN WILSON CO.,TN	NASHVILLE SMSA RETITLED AS NASHVILLE-DAVIDSON SMSA, ADDED CHEATHAM, DICKSON, ROBERTSON, RUTHERFORD, AND WILLIAMSON COUNTIES
NASSAU-SUFFOLK, NY	NASSAU CO.,NY SUFFOLK CO.,NY	NEW SMSA
NEW BEDFORD, MA	BRISTOL COUNTY,MA (PART) ACUSHNET TOWN,MA DARTMOUTH TOWN,MA FAIRHAVEN TOWN,MA FREETOWN TOWN,MA NEW BEDFORD CITY,MA  PLYMOUTH COUNTY,MA (PART) LAKEVILLE TOWN,MA MARION TOWN,MA MATTAPOISETT TOWN,MA	ADDED FREETOWN TOWN IN BRISTOL COUNTY AND LAKEVILLE TOWN IN PLYMOUTH COUNTY
NEW BRITAIN, CT	HARTFORD COUNTY,CT (PART) BERLIN TOWN,CT NEW BRITAIN CITY,CT PLAINVILLE TOWN,CT SOUTHINGTON TOWN,CT	
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE, N.J.	MIDDLESEX CO.,NJ	NEW SMSA
NEW HAVEN-WEST HAVEN, CT	MIDDLESEX COUNTY,CT (PART) CLINTON TOWN,CT KILLINGWORTH TOWN,CT	NEW HAVEN SMSA WAS RETITLED AS NEW HAVEN-WEST HAVEN SMSA ADDED CLINTON AND KILLINGWORTH TOWNS IN MIDDLESEX COUNTY AND MADISON AND WALLINGFORD TOWNS IN NEW HAVEN COUNTY

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
NEW HAVEN-WEST HAVEN, CT--CON.	NEW HAVEN COUNTY, CT (PART) BETHANY TOWN, CT BRANFORD TOWN, CT EAST HAVEN TOWN, CT GUILFORD TOWN, CT HAMDEN TOWN, CT MADISON TOWN, CT NEW HAVEN CITY, CT NORTH BRANFORD TOWN, CT NORTH HAVEN TOWN, CT ORANGE TOWN, CT WALLINGFORD TOWN, CT WEST HAVEN CITY, CT WOODBIDGE TOWN, CT	
NEW LONDON-NORWICH, CT-RI	WASHINGTON COUNTY, RI (PART) HOPKINTON TOWN, RI WESTERLY TOWN, RI  MIDDLESEX COUNTY, CT (PART) OLD SAYBROOK TOWN, CT  NEW LONDON COUNTY, CT (PART) BOZRAH TOWN, CT EAST LYME TOWN, CT GRISWOLD TOWN, CT GROTON TOWN, CT LEDYARD TOWN, CT LISBON TOWN, CT MONTVILLE TOWN, CT NEW LONDON CITY, CT NORWICH CITY, CT OLD LYME TOWN, CT PRESTON TOWN, CT SPRAGUE TOWN, CT STONINGTON TOWN, CT WATERFORD TOWN, CT	NEW LONDON-GROTON-NORWICH SMSA RETITLED AS NEW LONDON-NORWICH SMSA, ADDED HOPKINTON AND WESTERLY TOWNS IN WASHINGTON COUNTY, OLD SAYBROOK TOWN IN MIDDLESEX COUNTY AND BOZRAH TOWN IN NEW LONDON COUNTY
NEW ORLEANS, LA	JEFFERSON PARISH, LA ORLEANS PARISH, LA ST BERNARD PARISH, LA ST TAMMANY PARISH, LA	
NEW YORK, NY-NJ	BRONX CO., NY KINGS CO., NY NEW YORK CO., NY PUTNAM CO., NY QUEENS CO., NY RICHMOND CO., NY ROCKLAND CO., NY WESTCHESTER CO., NY BERGEN CO., NJ	ADDED BERGEN COUNTY, NJ. AND PUTNAM COUNTY, NY., NASSAU AND SUFFOLK COUNTIES WERE DROPPED
NEWARK, NJ	ESSEX CO., NJ MORRIS CO., NJ SOMERSET CO., NJ UNION CO., NJ	ADDED SOMERSET COUNTY
NEWPORT NEWS-HAMPTON, VA	GLOUCESTER CO., VA JAMES CITY CO., VA YORK CO., VA HAMPTON CITY, VA NEWPORT NEWS CITY, VA WILLIAMSBURG CITY, VA	ADDED WILLIAMSBURG CITY AND GLOUCESTER AND JAMES CITY COUNTIES
NORFOLK-VIRGINIA BEACH-PORTSMOUTH, VA-NC	CHESAPEAKE CITY, VA NANSEMOND CITY, VA NORFOLK CITY, VA PORTSMOUTH CITY, VA SUFFOLK CITY, VA VIRGINIA BEACH CITY, VA CURRITUCK CO., NC	ADDED NANSEMOND AND SUFFOLK CITIES IN VA. AND CURRITUCK COUNTY IN NC
NORTHEAST PENNSYLVANIA, PA	LACKAWANNA CO., PA LUZERNE CO., PA MONROE CO., PA	COMBINED SCRANTON SMSA WITH WILKES-BARRE-HAZLETON SMSA
NORWALK, CT	FAIRFIELD COUNTY, CT (PART) NORWALK CITY, CT WESTON TOWN, CT WESTPORT TOWN, CT WILTON TOWN, CT	ADDED WESTON TOWN IN FAIRFIELD COUNTY
ODESSA, TX	ECTOR CO., TX	

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
OKLAHOMA CITY, OK	CANADIAN CO.,OK CLEVELAND CO.,OK MC CLAIN CO.,OK OKLAHOMA CO.,OK POTTAWATOMIE CO.,OK	ADDED MC CLAIN AND POTTAWATOMIE COUNTIES
OMAHA, NE-IA	POTTAWATTAMIE CO.,IA DOUGLAS CO.,NE SARPY CO.,NE	
ORLANDO, FL	ORANGE CO.,FL OSCEOLA CO.,FL SEMINOLE CO.,FL	ADDED OSCEOLA COUNTY
OWENSBORO, KY	DAVIESS CO.,KY	NEW SMSA
OXNARD-SIMI VALLEY-VENTURA, CA	VENTURA CO.,CA	OXNARD-VENTURA SMSA RETITLED AS OXNARD-SIMI VALLEY-VENTURA
PARKERSBURG-MARIETTA, WV-OH	WASHINGTON CO.,OH WIRT CO.,WV WOOD CO.,WV	NEW SMSA
PATERSON-CLIFTON-PASSAIC, NJ	PASSAIC CO.,NJ	DROPPED BERGEN COUNTY
PENSACOLA, FL	ESCAMBIA CO.,FL SANTA ROSA CO.,FL	
PEORIA, IL	PEORIA CO.,IL TAZEWELL CO.,IL WOODFORD CO.,IL	
PETERSBURG-COLONIAL HEIGHTS-HOPEWELL, VA	DINWIDDIE CO.,VA PRINCE GEORGE CO.,VA COLONIAL HEIGHTS CITY,VA HOPEWELL CITY,VA PETERSBURG CITY,VA	NEW SMSA
PHILADELPHIA, PA-NJ	BURLINGTON CO.,NJ CAMDEN CO.,NJ GLOUCESTER CO.,NJ BUCKS CO.,PA CHESTER CO.,PA DELAWARE CO.,PA MONTGOMERY CO.,PA PHILADELPHIA CO.,PA	
PHOENIX, AZ	MARICOPA CO.,AZ	
PINE BLUFF, AR	JEFFERSON CO.,AR	
PITTSBURGH, PA	ALLEGHENY CO.,PA BEAVER CO.,PA WASHINGTON CO.,PA WESTMORELAND CO.,PA	
PITTSFIELD, MA	BERKSHIRE COUNTY,MA (PART) ADAMS TOWN,MA CHESHIRE TOWN,MA DALTON TOWN,MA LANESBOROUGH TOWN,MA LEE TOWN,MA LENOX TOWN,MA PITTSFIELD CITY,MA STOCKBRIDGE TOWN,MA	ADDED ADAMS, CHESHIRE, AND STOCKBRIDGE TOWNS IN BERKSHIRE COUNTY
PORTLAND, ME	CUMBERLAND COUNTY,ME (PART) CAPE ELIZABETH TOWN,ME CUMBERLAND TOWN,ME FALMOUTH TOWN,ME FREEPORT TOWN,ME GORHAM TOWN,ME PORTLAND CITY,ME SCARBOROUGH TOWN,ME SOUTH PORTLAND CITY,ME WESTBROOK CITY,ME WINDHAM TOWN,ME YARMOUTH TOWN,ME  YORK COUNTY,ME (PART) OLD ORCHARD BEACH TOWN,ME SACO CITY,ME	ADDED FREEPORT AND WINDHAM TOWNS IN CUMBERLAND COUNTY AND SACO CITY AND OLD ORCHARD BEACH TOWN IN YORK COUNTY



# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
PORTLAND, OR-#A	CLARK CO.,WA CLACKAMAS CO.,OR MULTNOMAH CO.,OR WASHINGTON CO.,OR	
POUGHKEEPSIE, NY	DUTCHESS CO.,NY	NEW SMSA
PROVIDENCE-WARWICK-PAWTUCKET, RI-MA	BRISTOL COUNTY,MA (PART) ATTLEBORO CITY,MA NORTH ATTLEBOROUGH TOWN,MA NORTON TOWN,MA REHOBOTH TOWN,MA SEEKONK TOWN,MA  NORFOLK COUNTY,MA (PART) PLAINVILLE TOWN,MA  WORCESTER COUNTY,MA (PART) BLACKSTONE TOWN,MA MILLVILLE TOWN,MA  BRISTOL COUNTY,RI (PART) BARRINGTON TOWN,RI BRISTOL TOWN,RI WARREN TOWN,RI  KENT COUNTY,RI (PART) COVENTRY TOWN,RI EAST GREENWICH TOWN,RI WARWICK CITY,RI WEST WARWICK TOWN,RI  NEWPORT COUNTY,RI (PART) JAMESTOWN TOWN,RI  PROVIDENCE COUNTY,RI (PART) BURRILLVILLE TOWN,RI CENTRAL FALLS CITY,RI CRANSTON CITY,RI CUMBERLAND TOWN,RI EAST PROVIDENCE CITY,RI JOHNSTON TOWN,RI LINCOLN TOWN,RI NORTH PROVIDENCE TOWN,RI NORTH SMITHFIELD TOWN,RI PAWTUCKET CITY,RI PROVIDENCE CITY,RI SCITUATE TOWN,RI SMITHFIELD TOWN,RI WOONSOCKET CITY,RI  WASHINGTON COUNTY,RI (PART) NARRAGANSETT TOWN,RI NORTH KINGSTOWN TOWN,RI SOUTH KINGSTOWN TOWN,RI	ADDED SCITUATE TOWN FROM PROVIDENCE COUNTY, AND NORTON TOWN FROM BRISTOL COUNTY, MA., DROPPED BELLINGHAM, FRANKLIN, AND WRENTHAM TOWNS IN NORFOLK COUNTY
PROVO-OREM, UT	UTAH CO.,UT	
PUEBLO, CO	PUEBLO CO.,CO	
RACINE, WI	RACINE CO.,WI	
RALEIGH-DURHAM, NC	DURHAM CO.,NC ORANGE CO.,NC WAKE CO.,NC	COMBINED RALEIGH SMSA WITH DURHAM SMSA
READING, PA	BERKS CO.,PA	
RENO, NV	WASHOE CO.,NV	
RICHLAND-KENNEWICK, WA	BENTON CO.,WA FRANKLIN CO.,WA	NEW SMSA
RICHMOND, VA	CHARLES CITY CO.,VA CHESTERFIELD CO.,VA GOOCHLAND CO.,VA HANOVER CO.,VA HENRICO CO.,VA POWHATAN CO.,VA RICHMOND CITY,VA	ADDED CHARLES CITY AND GOOCHLAND AND POWHATAN COUNTIES
RIVERSIDE-SAN BERNARDINO- ONTARIO, CA	RIVERSIDE CO.,CA SAN BERNARDINO CO.,CA	SAN BERNARDINO-RIVERSIDE-ONTARIO SMSA RETITLED AS RIVERSIDE-SAN BERNARDINO- ONTARIO SMSA

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
ROANOKE, VA	BOTETOURT CO.,VA CRAIG CO.,VA ROANOKE CO.,VA ROANOKE CITY,VA SALEM CITY,VA	ADDED SALEM CITY AND BOTETOURT AND CRAIG COUNTIES
ROCHESTER, MN	OLMSTED CO.,MN	NEW SMSA
ROCHESTER, NY	LIVINGSTON CO.,NY MONROE CO.,NY ONTARIO CO.,NY ORLEANS CO.,NY WAYNE CO.,NY	ADDED ONTARIO COUNTY
ROCKFORD, IL	BOONE CO.,IL WINNEBAGO CO.,IL	
SACRAMENTO, CA	PLACER CO.,CA SACRAMENTO CO.,CA YOLO CO.,CA	
SAGINAW, MI	SAGINAW CO.,MI	
ST CLOUD, MN	BENTON CO.,MN SHERBURNE CO.,MN STEARNS CO.,MN	NEW SMSA
ST JOSEPH, MO	ANDREW CO.,MO BUCHANAN CO.,MO	ADDED ANDREW COUNTY
ST LOUIS, MO-IL	CLINTON CO.,IL MADISON CO.,IL MONROE CO.,IL ST CLAIR CO.,IL FRANKLIN CO.,MO JEFFERSON CO.,MO ST CHARLES CO.,MO ST LOUIS CO.,MO ST LOUIS CITY,MO	ADDED CLINTON AND MONROE COUNTIES
SALEM, OR	MARION CO.,OR POLK CO.,OR	
SALINAS-SEASIDE-MONTEREY, CA	MONTEREY CO.,CA	SALINAS-MONTEREY SMSA RETITLED AS SALINAS-SEASIDE-MONTEREY SMSA
SALT LAKE CITY-OGDEN, UT	DAVIS CO.,UT SALT LAKE CO.,UT TOOELE CO.,UT WEBER CO.,UT	COMBINED SALT LAKE CITY SMSA WITH OGDEN SMSA
SAN ANGELO, TX	TOM GREEN CO.,TX	
SAN ANTONIO, TX	BEXAR CO.,TX COMAL CO.,TX GUADALUPE CO.,TX	ADDED COMAL COUNTY
SAN DIEGO, CA	SAN DIEGO CO.,CA	
SAN FRANCISCO-OAKLAND, CA	ALAMEDA CO.,CA CONTRA COSTA CO.,CA MARIN CO.,CA SAN FRANCISCO CO.,CA SAN MATEO CO.,CA	
SAN JOSE, CA	SANTA CLARA CO.,CA	
SANTA BARBARA-SANTA MARIA-LOMPOC, CA	SANTA BARBARA CO.,CA	SANTA BARBARA SMSA RETITLED AS SANTA BARBARA-SANTA MARIA-LOMPOC SMSA
SANTA CRUZ, CA	SANTA CRUZ CO.,CA	NEW SMSA
SANTA ROSA, CA	SONOMA CO.,CA	NEW SMSA
SARASOTA, FL	SARASOTA CO.,FL	NEW SMSA
SAVANNAH, GA	BRYAN CO.,GA CHATHAM CO.,GA EFFINGHAM CO.,GA	ADDED BRYAN AND EFFINGHAM
SEATTLE-EVERETT, WA	KING CO.,WA SNOHOMISH CO.,WA	
SHERMAN-DENISON, TX	GRAYSON CO.,TX	

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
SHREVEPORT, LA	BOSSIER PARISH, LA CADDO PARISH, LA WEBSTER PARISH, LA	ADDED WEBSTER PARISH
SIOUX CITY, IA-NE	WOODBURY CO., IA DAKOTA CO., NE	
SIOUX FALLS, SD	MINNEHAHA CO., SD	
SOUTH BEND, IN	MARSHALL CO., IN ST JOSEPH CO., IN	
SPOKANE, WA	SPOKANE CO., WA	
SPRINGFIELD, IL	MENARD CO., IL SANGAMON CO., IL	ADDED MENARD COUNTY
SPRINGFIELD, MO	CHRISTIAN CO., MO GREENE CO., MO	ADDED CHRISTIAN COUNTY
SPRINGFIELD, OH	CHAMPAIGN CO., OH CLARK CO., OH	ADDED CHAMPAIGN COUNTY
SPRINGFIELD-CHICOPEE-HOLYOKE, MA-CT	HAMPDEN COUNTY, MA (PART) AGAWAM TOWN, MA CHICOPEE CITY, MA EAST LONGMEADOW TOWN, MA HAMPDEN TOWN, MA HOLYOKE CITY, MA LONGMEADOW TOWN, MA LUDLOW TOWN, MA MONSON TOWN, MA PALMER TOWN, MA SOUTHWICK TOWN, MA SPRINGFIELD CITY, MA WESTFIELD CITY, MA WEST SPRINGFIELD TOWN, MA WILBRAHAM TOWN, MA  HAMPSHIRE COUNTY, MA (PART) BELCHERTOWN TOWN, MA EASTHAMPTON TOWN, MA GRANBY TOWN, MA HADLEY TOWN, MA HATFIELD TOWN, MA NORTHAMPTON CITY, MA SOUTHAMPTON TOWN, MA SOUTH HADLEY TOWN, MA  WORCESTER COUNTY, MA (PART) WARREN TOWN, MA  TOLLAND COUNTY, CT (PART) SOMERS TOWN, CT	ADDED BELCHERTOWN, HATFIELD, AND SOUTHAMPTON TOWNS IN HAMPSHIRE COUNTY
STAMFORD, CT	FAIRFIELD COUNTY, CT (PART) DARIEN TOWN, CT GREENWICH TOWN, CT NEW CANAAN TOWN, CT STAMFORD CITY, CT	
STEUBENVILLE-WEIRTON, OH-WV	JEFFERSON CO., OH BROOKE CO., WV HANCOCK CO., WV	
STOCKTON, CA	SAN JOAQUIN CO., CA	
SYRACUSE, NY	MADISON CO., NY ONONDAGA CO., NY OSWEGO CO., NY	
TACOMA, WA	PIERCE CO., WA	
TALLAHASSEE, FL	LEON CO., FL WAKULLA CO., FL	ADDED WAKULLA COUNTY
TAMPA-ST PETERSBURG, FL	HILLSBOROUGH CO., FL PASCO CO., FL PINELLAS CO., FL	ADDED PASCO COUNTY
TERRE HAUTE, IN	CLAY CO., IN SULLIVAN CO., IN VERMILLION CO., IN VIGO CO., IN	



# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
TEXARKANA, TX-TEXARKANA, AR	LITTLE RIVER CO., AR MILLER CO., AR BOWIE CO., TX	ADDED LITTLE RIVER COUNTY IN AR
TOLEDO, OH-MI	FULTON CO., OH LUCAS CO., OH OTTAWA CO., OH WOOD CO., OH MONROE CO., MI	ADDED FULTON AND OTTAWA COUNTIES
TOPEKA, KS	JEFFERSON CO., KS OSAGE CO., KS SHAWNEE CO., KS	ADDED JEFFERSON AND OSAGE COUNTIES
TRENTON, NJ	MERCER CO., NJ	
TUCSON, AZ	PIMA CO., AZ	
TULSA, OK	CREEK CO., OK MAYES CO., OK OSAGE CO., OK ROGERS CO., OK TULSA CO., OK WAGONER CO., OK	ADDED MAYES, ROGERS, AND WAGONER COUNTIES
TUSCALOOSA, AL	TUSCALOOSA CO., AL	
TYLER, TX	SMITH CO., TX	
UTICA-ROME, NY	HERKIMER CO., NY ONEIDA CO., NY	
VALLEJO-FAIRFIELD-NAPA, CA	NAPA CO., CA SOLANO CO., CA	VALLEJO-NAPA SMSA RETITLED AS VALLEJO-FAIRFIELD-NAPA SMSA
VINELAND-MILLVILLE-BRIDGETON, NJ	CUMBERLAND CO., NJ	
WACO, TX	MC LENNAN CO., TX	
WASHINGTON, DC-MD-VA	CHARLES CO., MD MONTGOMERY CO., MD PRINCE GEORGES CO., MD DISTRICT OF COLUMBIA, DC ARLINGTON CO., VA FAIRFAX CO., VA LOUDOUN CO., VA PRINCE WILLIAM CO., VA ALEXANDRIA CITY, VA FAIRFAX CITY, VA FALLS CHURCH CITY, VA	ADDED CHARLES COUNTY IN MD
WATERBURY, CT	LITCHFIELD COUNTY, CT (PART) THOMASTON TOWN, CT WATERTOWN TOWN, CT WOODBURY TOWN, CT  NEW HAVEN COUNTY, CT (PART) BEACON FALLS TOWN, CT CHESHIRE TOWN, CT MIDDLEBURY TOWN, CT NAUGATUCK BOROUGH, CT PROSPECT TOWN, CT SOUTHBURY TOWN, CT WATERBURY CITY, CT WOLCOTT TOWN, CT	ADDED SOUTHURY TOWN IN NEW HAVEN COUNTY
WATERLOO-CEDAR FALLS, IA	BLACK HAWK CO., IA	WATERLOO SMSA RETITLED AS WATERLOO-CEDAR FALLS SMSA
WEST PALM BEACH-BOCA RATON, FL	PALM BEACH CO., FL	WEST PALM BEACH SMSA RETITLED AS WEST PALM BEACH-BOCA RATON SMSA
WHEELING, WV-OH	BELMONT CO., OH MARSHALL CO., WV OHIO CO., WV	
WICHITA, KS	BUTLER CO., KS SEDGWICK CO., KS	
WICHITA FALLS, TX	CLAY CO., TX WICHITA CO., TX	ADDED CLAY COUNTY AND DROPPED ARCHER COUNTY
WILLIAMSPORT, PA	LYCOMING CO., PA	NEW SMSA

# APPENDIX E—Continued

## Standard Metropolitan Statistical Areas—Continued

SMSA name	SMSA definition	Changes for 1972
WILMINGTON, DE-NJ-MD	SALEM CO., NJ NEW CASTLE CO., DE CECIL CO., MD	
WILMINGTON, NC	BRUNSWICK CO., NC NEW HANOVER CO., NC	
WORCESTER, MA	WORCESTER COUNTY, MA (PART) AUBURN TOWN, MA BERLIN TOWN, MA BOYLSTON TOWN, MA BROOKFIELD TOWN, MA CHARLTON TOWN, MA EAST BROOKFIELD TOWN, MA GRAFTON TOWN, MA HOLDEN TOWN, MA LEICESTER TOWN, MA MILLBURY TOWN, MA NORTHBOROUGH TOWN, MA NORTHBRIDGE TOWN, MA NORTH BROOKFIELD TOWN, MA OXFORD TOWN, MA PAXTON TOWN, MA SHREWSBURY TOWN, MA SPENCER TOWN, MA STERLING TOWN, MA SUTTON TOWN, MA UPTON TOWN, MA UXBRIDGE TOWN, MA WEBSTER TOWN, MA WESTBOROUGH TOWN, MA WEST BOYLSTON TOWN, MA WORCESTER CITY, MA	ADDED CHARLTON, UXBRIDGE, AND WEBSTER TOWNS IN WORCESTER COUNTY
YAKIMA, WA	YAKIMA CO., WA	NEW SMSA
YORK, PA	ADAMS CO., PA YORK CO., PA	
YOUNGSTOWN-WARREN, OH	MAHONING CO., OH TRUMBULL CO., OH	

















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